



Door Prizes Of Champagne At I.F.C. Ball

Miss Mary Ames To Pick
Five Lucky Guests
By Lottery

MINSTRELS TO SING

Five silver coated bottles of champagne are to be given as door prizes at the I.F.C. Ball during intermission next Friday, in the Imperial Ballroom of the Hotel Statler, the dance committee announced last night.

The couples will be given numbers as they enter the ballroom, and during the intermission the five winners will be drawn from a huge revolving drum set up on the stage. Miss Mary Ames, of Miss Wheelock's School, guest of Russell L. Hayden, Jr., '40, is to pick the prize winning numbers.

Strolling Minstrels to Entertain

After the champagne has been distributed to the lucky winners, by Hotel Statler bell hops, the dancers will be entertained by strolling minstrels and accordionists who will circulate among the tables and lead in the singing of many Technology songs.

A few tickets are as yet unsold according to the committee, and may be obtained by calling Robert Wallace Blake, '41, at the Phi Kappa Sigma house. Since there are only a few left, the first who make reservations will be given preference.

Himber's Band to Play

Richard Himber, whose orchestra is to play for the ball, has recently finished an engagement at the Hotel Pierre in New York City. Previously he had broadcast on the Studebaker program over a coast-to-coast hook-up.

Foreign Students To Organize Club

T.C.A. Will Sponsor Move
To Encourage Contacts
Of Students

Plans to form a Technology Foreign Students Club to be sponsored by the T.C.A. were approved last week at a meeting of the executive committee of the T.C.A. Paul C. Gomez, '43, director of the Foreign Students department, is in charge of the foundation and organization of the society.

The club is being formed in order to bring the 300 foreign students in the Institute into closer contact with one another in social activities and to give American students a chance to become better acquainted with the 49 foreign countries represented at the Institute.

There is to be an open meeting for all students either foreign or domestic in the near future at which anyone who has any ideas for the club may express them. Further information may be obtained from Paul C. Gomez in the T.C.A. office or at the meeting.

Alpha Phi Omega To Hold Eagle Scout Day Apr. 27

The annual Eagle Scout Day sponsored by Alpha Phi Omega, honorary scouting fraternity, will be held in conjunction with Open House this year.

Between 100 and 150 eagle scouts from Metropolitan Boston will be the guests at the Institute. The program and tours are being planned by two of the fraternity pledges as their pledge duty.

Tickets To World's Fair To Be Handled By T.C.A.

Special reduced rates for tickets to the 1940 showing of the New York World's Fair may now be obtained through the T.C.A., according to Kenneth L. Warden, Jr., chairman of the Ticket Service committee.

Orders may be given for season tickets at \$5.00, twenty admission tickets at \$3.50, and souvenir tickets allowing 5 admissions and 5 tickets to feature attractions at \$2.00. These orders must be in the T.C.A. office before Saturday, May 4, and may be purchased only through the T.C.A.

Jack Marshard To Supply Music For Dorm Dance

Open House Ball Restricted
To Dorm Students;
Guests Invited

Jack Marshard's Persian Room orchestra is scheduled to play for the Biennial Open House Ball to be held Friday evening, April 26, in Morss (Main) Hall of Walker Memorial.

Sponsored By Dormitories

The dance is sponsored by the Dormitory Dance Committee especially for dormitory residents. The sale of the two hundred tickets at two dollars apiece has been restricted exclusively to the dormitory students. Only members of the committee in charge have handled this sale.

The ball, which is to be fashioned more along the lines of a party than a dance, will feature a professional comedian and a number of songs. A buffet spread is to be served at midnight, and the guests will pour coffee.

Guests Accept Invitations

The guests who have accepted their invitations are: President and Mrs. Karl T. Compton, Professor and Mrs. Leicester F. Hamilton, Major and Mrs. Kirke B. Lawton, and Professor and Mrs. F. Alexander Magoun.

Secretary Abandons The Tech To Answer Call Of 'Dan Cupid'

Climaxing a thrilling short-wave radio romance, Dan Cupid's fateful arrow has lodged in the heart of The Tech's esteemed secretary. "Tarz", who has ably and efficiently handled the secretarial problems of The Tech and Voo Doo for four years, will be married to Mr. Walter Anderson on May 25.

When asked what she plans to do with so much leisure time after her busy career as secretary for two publications, Miss Elliott (Tarz) said she plans to relax and read all the back issues of Voo Doo and The Tech.

Reminiscing about her trials and tribulations as secretary, Tarz recalled the time she received a bum check for typing a thesis. She had to chase the bouncer all the way to Alaska before he finally kicked in with the proper remuneration.

An ardent bowling enthusiast, Tarz holds the highest bowling score ever

(Continued on Page 4)

30,000 Expected To Attend 15th Institute Open House; Lists Of Exhibits Is Released

Innovations Planned To Streamline Program

Upperclassmen Will Act As
Exhibit Guides For
The Visitors

Innovations new in Open House history and intended to streamline the reception of 30,000 guests expected to attend Technology's fifteenth biennial Open House next Friday, April 27, were announced late last night by the Open House Committee.

Contrary to previous years, the Committee is not asking the Faculty to hold organized receptions unless they wish to, but is requesting instead that they be in their offices to receive guests. Officials of the Institute are privileged to obtain special guides for groups of friends or other parties if they wish by simply calling the Open House Committee headquarters.

R.O.T.C. Men to Be Trained

The Open House Committee is instituting a new feature by training two Junior or Senior R.O.T.C. officers from each course in the handling of visitors and in the various details of the respective exhibits. These men, selected by the student Course Chairmen, will receive their instructions directly from the Receptions Committee.

Officers to Instruct Freshmen

The officers will then in turn instruct the freshmen group placed under them in their various duties. The freshmen, attired in their M.S. uniforms, will be assigned to one special exhibit for a period of two hours. For this service each of the first year men will be excused from one drill period in the future.

It was also announced that the men in charge of special exhibits or activities must hand in a list of freshmen working for them to the Receptions Committee in order that no difficulties may arise with the Military Science department.

These special guides consist of upperclassmen instructed in the various

(Continued on page 2)

Open House Will Feature Phoney Money Exhibition

The largest collection of counterfeit money ever to leave Washington, D.C., will be one of the exhibits of this year's Open House. Loaned by the United States treasury department, the exhibit includes all the different types of bogus money that have appeared in circulation.

Two secret service agents have been assigned to accompany the display. These men will give lectures about the counterfeit money and will show slides pertaining to the collection.

Summer Course List Is Released By R. Douglass

Four Technical Conferences
At Technology Planned
For Industry

A summer program of technical conferences and courses on research and practice on the frontiers of science and engineering was announced by Professor Raymond D. Douglass, chairman of the summer session. This program will include four important conferences and thirteen special advanced courses.

A conference on Friction and Surface Finish will be held from June 5 to 7 under the direction of Dr. Jerome C. Hunsaker, Head of the Department of Mechanical Engineering. Problems under discussion will concern boundary lubrication, the critical and illusive phenomenon of friction which occurs just before failure.

Spectroscopy Conference Planned

The eighth international conference on Spectroscopy will be held from July 15 to 17. The program includes discussion of the spectroscopic analysis of materials and other applications of spectroscopy to biology, medicine, chemistry, metallurgy, mineralogy, and industrial and engineering problems. The conference will be directed by Dr. George R. Harrison of the Department of Physics.

The solution of complex scientific and engineering mathematical problems with the aid of the Institute's differential analyzer will be the subject of a conference in the Institute's Center of Analysis, which is to be held under the direction of Dr. Samuel H. Caldwell from July 8 to 12.

Powder Metallurgy Conference

Powder Metallurgy will be discussed in a late summer conference from

(Continued on Page 2)

T.E.N. Features Two Photo Topics

The April issue of the Tech Engineering News, featuring two articles on photography, goes on sale today in the Main Lobby of Building 10.

The main attraction of this number is an article entitled "Color Film" by Dr. Walter Clark of the Kodak Research Laboratories. William R. Wilcox, '42, is the author of the other photographic article, "Faster Lenses," which deals with methods of improving lens efficiency.

The other two discussions are "Facts vs. Thought" by A. J. Shaler and H. T. Marcy and "Engineers' Third Degree" which concerns the new high-powered testing machines.

Each Dept. Exhibit To Show Work Of Course

Scientific Discoveries
Will Make Program
Spectacular

As final preparations for Open House near completion, a list of the most outstanding exhibits already constructed was released last night by George R. Weinbrenner, '40, chairman of exhibits.

Members of Course I have prepared a model railroad of intricate detail, and Course II will give a demonstration of testing materials. Ultra-low temperature experiments are to be shown by Course V, while several electrical exhibits have been completed by Course VI.

The electrocardiograph will be demonstrated by the members of Course VII, and many exhibits on chemical engineering will be displayed by Course X. Geophysical equipment and a valuable mineral collection have been arranged and set up as part of the Course XII exhibit. Course XIII members have prepared a ship model shop and a nautical museum, while studies in time-motion will be presented by Course XV.

An action exhibit of the Wright wind tunnel is the major contribution of Course XVI, and a termite colony is included in the Course XVII program. Course XVIII has arranged some interesting mathematical games for the entertainment of Open House guests, while the operation of an ore dressing laboratory will be demon-

(Continued on Page 4)

Hypnotist Signed For 5:15 Carnival

Ticket Campaign To Be Held
In Main Lobby Today;
Sale Restricted

Robert C. Snyder, '43, has been signed by the All-Tech Carnival committee to give a demonstration of hypnotism and legerdemain as one of the attractions in the side show.

Snyder will demonstrate his hypnotic ability on a trained subject first and then will attempt his feats on volunteers from the audience. After the hypnotic show, he will give a juggling exhibit attempting to juggle burning tennis balls, a feat seldom accomplished by even professional artists.

Tickets On Sale Today

Tickets for the Carnival to be held Friday, May 3, will go on sale in the lobby today and will continue on sale throughout the week. The ticket, which will admit a couple, may be purchased for 85 cents.

The number of tickets to be sold is limited according to Lester W. Gott, '41, president of the 5:15 Club, in order to insure adequate room for dancing.

Bond Issue Will Sellout

Since the Embryo Bond Issue was a complete sellout, the committee promises a "bigger and better" carnival.

To insure adequate space for dancing, the committee has announced that the center of Morss (Main) Hall will be roped off, and that the contests and novelty attractions will be divided between Morss Hall and the 5:15 Club Room.

(Continued on Page 4)



Miss Leta Elliott

The Tech

Vol. LX Tuesday, April 23, 1940 No. 21

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Managing Board

General ManagerHarold E. Dato, '41
 EditorClayton K. Baer, '41
 Managing EditorMartin Mann, '41
 Business ManagerHoward A. Morrison, '41

Editorial Board

Donald B. Cameron, '41
 Leslie Corsa, Jr., '41
 Peter E. Glimmer, '41
 Raymond F. Koch, '41
 Howard J. Samuels, '41
 Arthur S. Spear, '42

Associate Board

Assistant Editors
 Harvey I. Kram, '42
 Robert I. Kraus, '42
 Frederick Kunreuther, '41
 Carthrae M. Laffoon, Jr., '42
 Eric M. Wormser, '42
 John J. Quinn, '42
 Maurice E. Taylor, '42
 Edward F. Thode, '42
 John Weingarten, '42

Business Associates

Malcolm M. Anderson, '42
 Albert F. Clear, Jr., '42
 Charles D. Magdick, '42
 Jonathan H. Noyes, '42
 Philip E. Phaneuf, '42

Offices of The Tech

News and Editorial—Room 3, Walker Memorial, Cambridge, Mass.
 Telephone KIRKland 1882

Business—Room 301, Walker
 Telephone KIRKland 1881

SUBSCRIPTION, \$1.50 Per Year

Published every Tuesday and Friday during College year,
 except during College vacation.

Entered as Second Class Matter at the Boston Post Office

REPRESENTED FOR NATIONAL ADVERTISING BY

National Advertising Service, Inc.

College Publishers Representative

420 MADISON AVE. NEW YORK, N. Y.

CHICAGO • BOSTON • LOS ANGELES • SAN FRANCISCO

Member

Associated Collegiate Press

Distributor of

Collegiate Digest

Night Editor: Harry Ottinger, Jr., '43.

RECEIVING THOUSANDS

This Saturday upwards of thirty thousand people will pass through the doors of the Institute—visitors to the Technology's fifteenth Open House.

But in a larger sense these people will not be merely visitors. They will be guests, here to be received by the Massachusetts Institute of Technology and all that it stands for.

In this light Open House thrusts forth a responsibility. It is the Tech students' "Open House" — not the visitors'. The social obligation of playing host is as much the undergraduate's as the opportunity of showing off the Institute and seeing some of its more publicized wonders for himself.

Despite Interfraternity Conference and Dormitory Open House Balls the night before and the absence of classes, Saturday morning is definitely not one on which to stay in bed. Guests will arrive at 11. It is up to all Technology to be ready to welcome them.

The Institute will be judged not so much on what it has in the showcase as on how its staff and undergraduates act behind the counter.

ARE NOSE-COUNTERS TOO NOSEY?

Although the national census has been under way for several weeks, the controversy over the questions which Uncle Sam's representatives are asking America's millions still rages.

Collegians in general and Technology men in particular recognize the merits in this national statistics campaign. The taking of data and interpreting therefrom is a common task of engineering students.

In the non-collegian world, too, the number of people in the United States and what they do for a living are generally conceded to be facts worth knowing. It is not hard to see that these figures can be especially valuable in the long-needed attack on the unemployment situation.

Complaints about the census are leveled mainly at the alleged intimacy of the questions. Assurances that the facts garnered during the decennial nose-count are strictly confidential and are not reproducible for purposes of taxation or intimidation can not seem to alleviate the idea that the government is taking undue liberties and prying unnecessarily into American private lives.

There are, we believe, two things which act to keep the census above political taint. First of all, private citizens have helped the government prepare the questions; they are not the casual brainstorm of a few bureaucrats. In the second place, fuller, strictly

accurate statistics are required by the government if it is to continue in its public welfare legislation.

Politics, nevertheless, has unhappily crept into the picture. Senator Tobey's vitriolic but smallish attack on the census didn't do anyone any good. It was almost comparable to his plan to send a congressional committee to Fort Knox, Kentucky, to see if the wealth of gold supposed to be buried there, really is there.

Such tactics are the Fifth Column, citizen-baiting tricks used by certain legislators as a means of continuing in office.

But here on one of America's college campuses what can students do to aid Uncle Sam in his survey? First of all, they can supply their parents with certain information they will need to report on them accurately. Secondly, they can help to change the unfair and erroneous conclusions regarding the United States census frequently voiced these days by both the unenlightened and the presumably informed members of American Society.

THE OLD COLLEGE TRY

Varsity, a "College News Magazine," is making a bid to satisfy journalism's chronic need for a good, national collegiate publication.

In its third issue, dated April 15, 1940, its editors say:

"Varsity has chosen to use the term Intercollegiate Sphere to describe the magazine's audience. The faculty, alumni, and students of the colleges and universities of America comprise the great trinity to which Varsity is directed. It is to you, the men and women of the college world to whom we dedicate this publication. It is all yours; our pages are your pages, your interests our interests.

"The question as to why there never has been a publication, national in scope, serious in purpose, serving the potent Intercollegiate Sphere exclusively quite probably never will be answered. With the birth of Varsity, however, it is the sincere desire of the editors and publishers to fill that gap and so control the policies of the magazine that you will be glad to claim it as your own."

Varsity seems to be fulfilling its purpose as set forth by the editors. There are many well founded articles undoubtedly of collegiate interest. Such are those on Bertrand Russell, the television debate between Columbia and Bucknell, and a couple of crack-erjack sports stories.

On the other hand, a few of its pages seem nothing but pure tripe. Travel publicity pictures, a plethora of pretty girls, and certain fashion plugs are violently inconsistent with its purpose and detracts from the value of the other articles.

The news style of Varsity has been criticized biting, by *The Akron Buchtelite*:

"... it kicks the poor old English language around in a dreadful manner. Varsity is modeled on Time magazine, only it is less coherent.

"There is a school of journalism today which regards wasted words as a crime. It goes in for big, important words, and any little words like "the" and "and" are lost in the shuffle. In case they want to omit the word "the," they just leave it out. If they want to omit the "and," they put in a comma, and then there is the devil to pay trying to find out what words modify what other words.

"Hearsay has it that the English language has gotten along very well for at least a hundred years, possibly longer. There is also a general impression that it is pretty widely spoken, it being the language of a considerable portion of the people in Ohio and several surrounding states.

"This is just hearsay, mind you. We don't vouch for its truth. All we know is that for the past 20 years, English has been widely spoken in the city of Akron in much the same form as it is today. We hate to see it change all in a rush like this. We find ourselves standing in the way of progress. . ."

Notwithstanding, the Collegiate Digest, College Humor, and Voo Doo, Varsity if it adheres to its stated purpose, can fulfill a big gap in the field of college journalism. Even as it is now, there's more good journalism in Varsity than there is pink.

CALENDAR

TUESDAY, APRIL 23

5:00 P.M. Cercce Francaise Meeting—Room 7-137.

WEDNESDAY, APRIL 24

8:00-10:00 P.M. Alpha Phi Omega Meeting—Faculty Dining Room.

THURSDAY, APRIL 25

8:30 P.M. Alvar Aalto Lecture—Huntington Hall.

OPEN HOUSE LECTURES SATURDAY APRIL 27

"Low Temperature Investigation" by Professor Samuel C. Collins—Room 10-250.

Physics Lectures by various Students—Room 10-275.

Series of Movies by Course XV—Room 1-190.

Alternate Glass Blowing Experiments and Movies on Industrial and Home Safety—Room 6-120.

Movies on the Development of Plastics by Course X—Room 2-033.

Series of Experiments in Organic Chemistry by Professor Ernest C. Huntress—Room 4-270.

Aeronautics Lecture by Professor Richard C. Smith—Building 33.

Dining Criticisms Discussed Today

Committee To Hold Meeting After Dinner Tonight In Morss Hall

The Walker Dining Service Conference Committee, sub-committee of the Institute Committee, meets today in Morss (Main) Hall of Walker Memorial at 6:30 P.M.

After dinner the committee plans to discuss various criticisms and complaints which they have heard regarding the service. Mr. William H. Carlisle, Jr., and Mr. Albert W. Bridges, acting in cooperation with the committee, will also be present at the discussion.

Klyce Asks for Comments

Jack M. Klyce, '41, chairman of the committee, asked that all students with any comment, which they wish to bring to the attention of the service, get in contact with any member of the committee.

Summer Schedule

(Continued from Page 1)

August 29 to 31. Basic problems as well as the present state of industrial application and possible future developments and research will be under discussion.

The special summer courses will include Spectroscopy and its Applications, which will be given from June 1st to August 1st, under the direction of Dr. Harrison. Courses in General Bacteriology and Public Health Bacteriology, directed by Dr. Cecil G. Dunn and Dr. John W. Williams of the Department of Biology and Public Health, will be offered from June 10 to 28 and from July 1st to 19 respectively.

Colloid Chemistry Offered

Dr. Ernst A. Hauser will continue his summer course on Theoretical and Applied Physics and Physics of Matter in the Colloidal State from June 17 to July 20. A four summer program in Public Health, School Health, and Health Education leading to the certificate in Public Health, will begin this summer. There will also be a summer program in Food Technology from July 1st to July 19.

Professor Frederick H. Norton of the Department of Metallurgy, will lead a summer conference on Ceramics, dealing with ceramic molding processes, from July 8 to 13, and Professor John T. Rule will be in charge of a course on "Graphics for Teachers of Mechanical Drawing," which is to be given from July 8 to August 16.

City Planning Scheduled

A course on the Principles and Techniques, Legislation, and Administration in City Planning and the well-established summer course on Principles of Textile Analysis will be given this summer.

Photoelasticity, new summer course, will be given from July 22 to August 2 and a course on Statistical Methods from September 4 to September 14.

Salon Exhibited By Camera Club

The salon sponsored by the Camera Club will be on exhibit at the Technology Gallery for the coming two weeks. The judging of the prints is to be held within the next few days.

Three prizes will be awarded in each of the divisions: portrait, candid and technical. A special award is to be given to the picture judged the best in the show.

Judges Listed

The judges are Professor Henry L. Seaver of the architecture department; Professor John T. Rule of the drawing department, and Professor Frederick G. Fassett, Jr., of the English department.

Professor Arthur C. Hardy of the physics department will address the Camera Club on May 2, Thursday, at 5:00 P.M. on the technical aspects of Kodachrome. The room in which the lecture is to be given has not yet been determined.

Open House Plans

(Continued from Page 1)

exhibits on display who will be on hand to conduct preparatory or high school delegates, as well as other parties and interested groups.

Three Entrances to Be Used

The only entrances to the Institute which are to be used are the large entrance to the Rogers' Building on Massachusetts Avenue, the entrance to the Eastman Building, and the front and rear entrances to the Main Lobby. Visitors entering any one of these doors will find large signs directing them to any of the exhibits. Also at these doors will be information booths, available for those who are interested only in locating some special display.

There are to be no conducted tours during the day except in special cases. The committee has planned a systematic tour, to be marked by red arrows, through the entire Institute. As the visitor nears a point of interest freshmen guides will be available to answer questions. These same freshmen, together with the janitors, will have charge of watching over the more fragile exhibits.

Parking Facilities Listed

The parking facilities of the Institute will of course be open to all the visitors. These large lots will be policed by the Buildings and Power men together with a crew from the Metropolitan District Commission. The Open House Committee is endeavoring to secure other space so that there will be no question of adequate parking facilities.

FLOWERS FOR EVERYBODY
 Corsages our Specialty
ROBBINS the FLORIST
 26 CENTRAL SQUARE CAMBRIDGE
 TRO. 3850
 Member of Florists Telegraph
 Delivery Association

TECH CREWS SET FOR OPEN HOUSE RACE

BEAVER TALES

By Jack Quinn

When Memorial Drive takes on that richly collegiate atmosphere characteristic of crew racing, Open House visitors will know that Technology's crews are opening their season. Traffic on the drive will, no doubt, be jammed as fans from the Institute, Harvard, Syracuse, and Boston University move along that thoroughfare to follow the progress of the shells.

This sport, a typical spectator sport, is much more interesting to the watchers if they know the boys who are out there fighting for the school they are cheering. It is both our duty and our pleasure to work for this understanding.

Captain of the Institute Heavies is Bill Polberth. We wonder, however, whether "Bull" ever lets financial matters get on his mind when he's pulling that oar in the Number Two spot. His chairman's job on the budget committee probably is enough to keep him busy when he isn't on the river.

More Juniors who are on the varsity club are "Slugger" Mueller, at Number Six; "Goose" Guething, in the ve slot; Don Howard, the four man; and Joe Gavin, stroke. Our stroke is also a financial man, having just been elected treasurer of the Class of '41. He's also well up on that coveted team's List.

Back from a world cruise which put him a little higher above the water than his present Number Seven position in the varsity shell is Senior Bob Church. Those Naval Architects have their practice school, too—on a pump steamer. Cox Biancardi is also ending his last season at the lines.

Two Sophomores, Phil Phaneuf and Bob Shaw, were also named by Coach Bob Moch for Saturday's race, as the senior heartily added that he would not have the slightest qualms about fitting the lineup if anyone showed exceptional merit (or demerit).

Don't feel slighted, 150's, you'll be heard next week, when we won't have the limitations to cut you out.

TENTATIVE BOATINGS FOR ROWE CUP REGATTA

	Varsity	150 lb. Varsity	Freshman—1943
Bow	Robert Shaw, '42	William Horton, '42	Frank French
2	William Folberth, '41	Norman Van Der Voort, '41	Jim Leader
3	Phillip Phaneuf, '42	Herbert Howell, '42	Ed Mikolajczyk
4	Donald Howard, '41	Chester Hassert, '41	Bob Kelso
5	Theodore Guething, '41	David Mitchell, '42	Olvino Lorenzen
6	Carl Mueller, '41	Robert Wagner, '42	Bob Merger
7	Robert Church, '40	Howard Boise, '42	Jim Malloch
Stroke	Joseph Gavin, '41	Howard Woodward, '40	Al Meyer
Coxswain	Michael Biancardi, '40	Norman Karasick, '41	Frank Clauson

Tennis Schedule And Candidates Announced Today

Braunlich, Millar Or Kaneb Due For Top Spot On Varsity

Announcement of the schedule and team for this season, brings tennis into the current sports limelight.

Fighting for number one position on the team are Braunlich, the captain; Bob Millar, squash captain and George Kaneb, who, while at McGill University, was considered good enough to try out for the Canadian Davis Cup team. Kaneb transferred to the Institute last year, but was ineligible then. He will play now, however, and is expected to do some good work on the team.

Team Members

The rest of the team consists of Howie Samuels, Phil Freeman, Leo Wilson, and Vladimar Voschinsky, all of whom have been working out daily under the supervision of Jack Summers.

Sixteen men are out for the freshman squad, star of whom is Red Brindis, who is expected to do some good work this coming season. A schedule of eight games has been arranged, including a game against Wellesley.

The schedule is as follows:

- April 24—W.P.I.
- April 25—Dartmouth
- April 30—Brown
- May 9—Rhode Island State
- May 11—Union
- May 13—Harvard

SPORT CALENDAR

- WEDNESDAY At Tech
Lacrosse vs. New Hampshire
- THURSDAY at Tech
Tennis vs. W.P.I.
- FRIDAY at Hanover
Tennis vs. Dartmouth
- SATURDAY at Tech
Rowe Cup Regatta
Soccer vs. Harvard
Lacrosse vs. Springfield
Track at Colby University

Beaver Sailors Downed By Navy

Princeton Finishes Second In Triangular Race At Annapolis

Sailing the Navy's forty-foot yawls, the Beaver sailors lowered their colors to crews from Navy and Princeton at Annapolis on Sunday. This victory of Navy's came as revenge over the Cardinal skippers, who had beaten them last year in a similar competition.

The race was sailed in a strong northeast wind, which reached gale proportions at times. The boats travelled over an interesting eighteen-mile triangular course, consisting of a spinaker run, a broad reach, and a hard thrash to windward.

Unfamiliarity Is Bugaboo

Technology entered the race without the benefit of previous experience with either the boats or the course, because they were unable to get in any practice Saturday afternoon. Princeton was at a similar disadvantage, but managed to give Navy a close fight. An Engineer crew, consisting of Bill Watkins, Jim Tyson, Gil Clark, Ed Adams and Pete Park, with Eric Olsen skippering, maneuvered well, but could not make up the lead which Navy and Princeton gained in the early stages.

After first mark the Midshipmen led, but on the second turn Princeton cut down their advantage. Tech was trailing. The race ended in this order, Navy beating Princeton by 25 seconds, with the Institute men catching up on the last leg.

Soccer Team Schedules Harvard For Open House

Soccer practice will be stiffened this week in preparation for the practice game against Harvard on Saturday, Open House Day, on Coop field.

Because practice to date has not included any scrimmages, no lineup has been decided upon. Specialized training, in which the backs have been learning new tricks in clearing quickly, while the forward line and the halves have been practicing combination movements, is the current order of procedure.

This lack of scrimmage has made it impossible to choose a team, and in order to find the best team for the game, three scrimmages will be held this week, today, tomorrow, and Thursday. Getting the men in condi-

Circle 8325 Corsages

ARTHUR MIKELS
Discount to Students
159A MASSACHUSETTS AVENUE
BOSTON, MASS.

Beaver Stickmen Scheduled In Two Games This Week

Tech Lacrosse Team Meets Wildcats Tomorrow On Coop Field

The Institute lacrosse men will have a chance to avenge a pre-vacation defeat at the hands of the Stevens Tech stickmen when a New Hampshire team comes to Coop field on Wednesday afternoon.

Because New Hampshire has not played any intercollegiate games this year, it is difficult to comment on their strength. If their fast, aggressive play during past years is any indication, however, they should field a good combination, which, if nothing else, will give the Beavers a hard run for their money.

Springfield Saturday

On Saturday, Open House day, the Cardinal stick-slingers will stack up against Springfield on Coop field. Since the sport has not been played at that school during the past two years, Springfield is virtually a new team in the league. What the visitors lack in experience, however, they will make up in the condition of their men, all of whom engage in other strenuous sports during the other seasons of the year. With Springfield putting up a good show, and the Institute team fortified by the experience gained in Wednesday's game, the match should be fairly close.

The Freshmen play their first game of the year on Friday against Worcester Polytechnic Frosh team. The Frosh are badly in need of more men, since there are only enough men out to form one team. Lacrosse, especially, is a game where many substitutes are necessary.

The Engineer squad has been working hard in the past games this year, but with a week of no practice, during the vacation, and days of expected rain ahead, the team may be a little off on Wednesday. They should put up a good fight, however.

Lineup for the Varsity games follows:

- Goalie MacPhaul
 - Point Morehouse
 - Cover Point Kaneb
 - 1st Defence Hooper
 - 2nd Defence Schuchard
 - Center Seim
 - 2nd Attack Leghorn
 - 1st Attack Halstead
 - Outside Half Creamer
 - Inside Half Taransky
- Subs: Kelly, Riehl, Given, Fraser, Gabel, Sibley, Augusterfer, Seely, Gander, Brown, Finger, and Evans.

The Frosh lineup is not yet decided.

tion will be the keynote of the practices. Most of last year's team are now out except Wu and Haden, both of whom are Seniors, and Van Sciver, who is at present laid up with a broken leg.

BOTTLED LIQUORS
Prompt Delivery
Popular Prices
Personal Service
AT
CENTRAL DISTRIBUTING CO.
480 Mass. Ave., Cor. Brookline St.
TELEPHONE TRO. 1738

Moch's Men Open Racing Season On Charles

Harvard, Syracuse, And Boston University In Contest

Technology's racing season gets off to a flying start the day of Open House when the three crews, varsity heavy and light-weight and freshman crews compete in the Rowe Cup Regatta together with Harvard, Syracuse, and Boston University.

Coach Bob Moch declared that the four days of vacation spent in hard practice would up the strenuous part of their conditioning and that this coming week would be spent in tapering off for the season's opener.

Fifty Out

More than 50 aspirants for seats in the varsity and freshman shells willingly gave up their coveted spring vacation at the request of Coaches Bob Moch and Jim McMillan. Twice a day, at 10:30 in the morning and 4:30 in the afternoon, the varsity heavyweight and 150-pound crews and the freshman crews clad in sweat shirts, sweat pants, and other homemade windbreakers took to the river.

The climax of the holiday practice session came during the Saturday morning and afternoon trips. Pat Manning, veteran coach of the 150's stated that the water was the roughest of any that the Tech crews had been on for a long time. To further hamper the oarsmen a cold, penetrating rain fell all day.

Coaches Keep Dry

The coaches themselves were in no better circumstances than their charges. Boots, sou'westers, and rain hats were the equipment they found necessary while riding in the launches.

Tennis Rackets Restring
Expert One-Day Service
Tennis Balls

TECH PHARMACY
86 MASSACHUSETTS AVENUE
CAMBRIDGE, MASS.

CORSAGES

Evergreen Flower Shoppe
712 HUNTINGTON AVE.
LON. 9132

ROBERT GIVEN '42
LESTER GOTT '41
STUDENT REPRESENTATIVES

WATCHES • DIAMONDS • JEWELRY

Watch and Jewelry Repairing
A Specialty

Discount to Tech Students

GILBERT RYDER
387 WASHINGTON ST., BOSTON
LlBerty 9382

Walton Lunch Co.

Morning, Noon and Night
You will find All Tech at
78 Massachusetts Avenue
CAMBRIDGE

QUICK SERVICE
APPETIZING FOOD
POPULAR PRICES
Quality First Always

THAT'S
WALTON'S

1080 Boylston Street
Convenient to Fraternity Men

Dorm Nine Practices In Earnest



Staff Photo



Staff Photo

Beaupre, '41 bats them out while Bob Grossefinger, '40 fields them. Both men are out for the pitching staff of the new team.

teups for the first scheduled h of the Dormitory baseball sea- against the Boston Boy's Club ay 4th, were announced tenta- by Captain Ed Beaupre last e team will be: Catcher, Kusch; er, Beaupre; 1st base, Marakas; ase, Cohen; Short Stop, Arnold; base, Carpenter; right field, fer; center field, Koczyla; left Dine. These men will probably orm the team which will meet 15 Club, as soon as the weather ts. This game will be played on y afternoon if possible.

Practise Fielding

nce to date has consisted

mainly of fielding, to which most of the boys are responding favorably. Indications are that a fairly strong batting side can be put on the field, although no practice in that end of the game has yet been held. Judgment of batting ability is based mainly on previous performances, both in intramural competition at Tech and in high and prep school competition.

Because the team has not yet been able to find a suitable backstop for batting, workouts have been confined to fielding. The expectation that a backstop will be erected on Coop Field later in the season was voiced yesterday by Beaupre.

EXAMINATION SCHEDULE

THURSDAY, MAY 23—9 A.M.

Subject	Room	Time
Transport. Eng.	Babeck, Bone	13.12
Stat. Structures	Mirabelli	16.52
Adv. Struct. Theory	Fife	16.914
Silver Eng.	Reynolds	19.01
Sanitary Eng.	Camp	E-40
Refriger. Eng.	Stenson	E-68
Eur. Civ. & Art	Seaver	M792
Inorg. Chem.	Schumb	
Prin. Elec. Eng.	Frazier	
Elec. Power Gen.	Mulligan	1.572
Elec. Power Cir.	Wildes	2.212
Pow. Sys. Econ.	Balsbaugh	2.421
Theoret. Biology	Blake	2.56
Tech. of Food Prod.	Proctor	6.01
Nuclear Physics	R. D. Evans	6.327
Th. of Warship Des.	Keith	6.652
Yacht Arch.	Owen	7.08
Marine Eng.	Burtner	7.362
Ind. Accounting	Porter, Fiske	7.82
Aircraft Struct.	Newell	8.034
Vector Anal.	Hitchcock	8.01
Special Examinations		8.01

THURSDAY, MAY 23—1:30 P.M.

Soil Mechanics	D. W. Taylor	8.102
Soil Mechanics	D. W. Taylor	10.21
App. Mechanics	L. S. Smith	10.46
Applied Mech.	Holmes	16.43
Adv. Heat Trans.	Berry	16.934
Auto. Engines	C. F. Taylor	19.20
Elem. of Mining	Bugbee	
Arch. History	E. T. Putnam	
Th. & Pr. City Plan.	F. J. Adams	
Phys. Chem.	Millard	5.52
Phys. Chem.	Sherrill	6.542
App. Elec. in Ind.	Davis	6.61
Prin. Elec. Com.	Guillemin	6.62
Adv. Network Th.	Guillemin	10.43
Th. & Ap. Servo Mech.	G. S. Brown	15.81
Bacteriology	Harwood	16.20
Line Spectra	Albertson	16.912
Th. Warship Des.	Russell	E-42
(2 hours)	Keith	E-122
Adv. Marine Eng.	Burtner	M11
Accounting	Porter, Fiske	M12
Adv. Aircraft Str.	Newell	M37
Dyn. Meteor.	Houghton	
Labor Prob.	Livernash	
Special Examinations		

FRIDAY, MAY 24—9 A.M.

Structures	Mitsch	2.00
Structures	Mitsch	2.01
Applied Mech.	Soderberg	2.033
Adv. Eng. Thermodyn.	Keenan	5.137
Prin. of Mining	Bugbee	7.06
Prin. Elec. Eng.	R. R. Lawrence	8.12
Elec. Mach. Des.	Dwight	
Prin. Radio Comm	Barrow	
Pow. Sys. Stability	Fitzgerald	
Bacteriology	Jennison	1.40
School Health Ad.	Turner	1.401
Tech. & Chem. of Food Supplies	Proctor	2.40
Chemical Eng.	McAdams	3.25
Accounting	Porter, Fiske	6.02
Arpl. Des. Prob.	Korten	7.42
Calculus	Hitchcock	8.01
Diff. Equations	Zeldin	8.02
Mechanics	Crout	8.31
Special Examinations		10.23
		13.021
		16.10

FRIDAY, MAY 24—1:30 P.M.

Quant. Surveying	Babeck, Bone	2.04
Structures	Fife	2.042
Water Power Eng. & Flood Control	Barrows	13.52
Water Power Eng. & Flood Control	Barrows	E22
Adv. San. Eng.	Camp	
El. Struc. Mech.	Holmes	
Heat Engineering	Stenson	
Eur. Civ. & Art	Seaver	1.62
Eur. Civ. & Art	Seaver	5.141
Chemistry	Wareham	
Organic Chem.	Hockett	
Trans. in Lin. Sys.	M. F. Gardner	
Physiology	Bunker	7.14
Electronics	Nottingham	E-11
Distillation	McAdams	

Innocent (?) Sneeze Caught Red Handed By Stroboscope

To most people a sneeze is something that begins with a-h . . . a-h . . . a-h . . . and ends with cho-oo! To Professor Marshall W. Jennison in the department of Biology and Public Health, however, this proboscicidal convulsion is a mile-a-minute spasm spraying droplets from the nose and mouth into the air at "muzzle" velocities as high as 150 feet a second, or nearly 120 miles an hour.

Aided by Professor Harold E. Edgerton's newly developed technique of high speed photography, Professor Marshall has been carrying on extensive studies of the velocity, size, and numbers of these microbe-bearing droplets expelled by sneezing.

Photographs Studied

A study of these stop-motion photographs in which clouds of minute droplets were "stopped" in full flight revealed that thousands of tiny particles of varying sizes down to at least one two hundred and fiftieth of an inch in diameter are expelled in a single sneeze. Analysis of a number of photographs also shows that there is great variation in numbers of droplets with the intensity of the sneeze. The smallest droplets evaporate, leaving minute particles of germ-laden matter from the nose and throat floating in the air, which may be widely and rapidly distributed in a short time.

Professor Jennison's study was concerned with the fundamental "mechanics" of sneezing and droplet production, and from the knowledge thus

gained he hopes to advance the investigation to determine to what extent the sneeze may be responsible for the spread of harmful microbes of respiratory diseases. Investigation also showed that the number of droplets issuing from the nose is often large, but is almost insignificant compared with the number expelled from the mouth, even when the sneeze is not stifled.

Cough Produces Large Droplets

This study also indicates that coughing in general produces fewer and larger droplets than sneezing. These studies reveal that the significance of the speed of expulsion of droplets is perhaps greater than has been appreciated and may be a more important factor than settling velocity in relation to their rate of evaporation.



Stroboscope Catches Sneeze

Secretary and Cupid

(Continued from Page 1)

made at The Tech's bowling parties. Of her job she says simply, "Very interesting work", refusing further comment until she receives her final paycheck.

Admits Reason for "Tarz"

Curious to know how she had received the affectionate nickname "Tarz" we bluntly asked her the why and wherefore. Demurely she admitted (quote) "I used to swing through the trees 'n yodel" (unquote).

After their marriage Miss Elliott and her husband will sail for South America on June 14 where Mr. Anderson is employed by the United Fruit Company. In order to speak with the natives in Ecuador Tarz has been spending her evenings recently learning Spanish and Zulu. She hopes to "teach those rhumba-jumpers how to jitterbug".

To take Miss Elliott's place as secretary, The Tech has engaged Mrs. Robert C. Casselman. "Dottie", as the new secretary is already known, graduated from Wellesley last year and her husband graduated from the Institute the same year. Mr. Casselman was general manager of Voo Doo while at Tech. The Casselmans have been married nearly a month, and of married life Mrs. Casselman says "It's great fun". She has taken the job as secretary, she says, "To keep her husband in the style to which he is accustomed". At this point our conversation was concluded so she could get her husband's dinner prepared.

HIGH GRADE TYPEWRITING

Wide experience in scientific work of all kinds. Statistics. Long carriage machine. Facilities for handling any quantity of work at short notice.

Darling Secretarial Office
1384 Mass. Ave., Rooms 4-5
HARVARD SQUARE—Tel. Tr. 8750

'40 Technique Offers Last Sales Opportunity

The last opportunity to purchase the 1940 edition of *Technique* will be offered to students this week. Today in the Main Lobby of Building 10, the final sale, before the distribution of the yearbook, is to be launched. The campaign will last until Thursday, April 25. The price at this time is five dollars. Earlier in the year, the book had sold at cheaper prices.

Exhibits

(Continued from Page 1)

strated by the members of Course XIV.

A list of the course chairmen for the respective exhibits is as follows: Course I. Robert A. Bittenbender, '40; II. Adolf L. Sebell, '40; III. Milmi F. Sagoci, '40; IV. Eugene E. Crawford, '41; V. Henry Rapoport, '40; VI. Donald D. Scarff, '41; VII. Dudley B. Follansbee, '40; VIII. James W. Follin, '40; IX. Charles W. Freeman, '40, and Willard L. Morrison, '40; X. Frederick W. Hammersfahr, '40.

Courses XII. Joseph S. Bowman, '41; XIII. John A. Livingston, '41; XV. Robert J. Meier, '41; XVI. Teddy F. Walkowicz, '41; XVII. Eugene F. Lawrence, '41; XVIII. Irving Stein, '41; and Course XIX. Paul V. Boller- man, '40.

A tentative tour schedule has already been prepared by the committee in charge, and includes the following points of interest: On the first floor, buildings housing Mechanical Engineering, Economics, Business and Administration, Sanitary and Civil Engineering, Naval Architecture, Military Science, architectural rooms, Roger's Lobby, Main Lobby, and Electrical Engineering laboratories.

On the second floor, the trip will cover the Electrical Engineering laboratory, electrical and mathematical calculating machines, Biology, Organic laboratories, Geology, X-Ray laboratories, and the Metallurgy Department.

In the basement, the tour will extend into the Metallurgical laboratories and in the Course X rooms. From there the party will leave for the English and Mathematical rooms, and the Hobby Shop. As a final step, an inspection of Walker Memorial is planned to complete the trip.

A separate tour is scheduled for a group of sixty distinguished New England gentlemen, famed in the fields of industry and education. These men are either members of the Institute Corporation living in Boston vicinity or members of the New England Committee on New Products, of which Dr. Karl T. Compton is chairman, or officials in the state and federal governmental departments. The tour will be conducted by a special group of ushers, beginning at 10:00 A.M. A luncheon will be served the guests of honor at Walker around 12:30 P.M.

All-Tech Carnival

(Continued from Page 1)

Plans for the contest games have nearly been completed and a comprehensive array of machines designed to test the skill and ingenuity of Technology men and their dates will line the halls of Walker. The games are to be mainly games of skill with a few games of chance for those favored by luck.

Kissing Booth To Be Installed

The committee also hopes to have a kissing booth installed in the 5:15 Clubroom where the stags present "may purchase thrills from the lips of lovely women". The girls will be furnished by members of the committee.

ELIOT FLOWER SHOP

Specializing in Corsages

Special Rates to Tech Students

87 MASS. AVE., BOSTON

KEN 6470

Alvar Aalto Will Lecture About Finland

International Architects Heads Reconstruction Of Finland

GIVES THREE LECTURES

Mr. Alvar Aalto, head of the reconstruction operations in Finland, will pay a short lecture visit to the Institute this Thursday and Friday, giving his brief tour of the United States. His lecture will be entitled "Finnish Reconstruction." The Finnish architect's visit to the Institute being sponsored by the School of Architecture and the Bemis Foundation.

Mr. Aalto has planned to deliver three talks on the conditions in Finland now and during the past months. All of them are to be open to the public without charge. He will speak to students both Thursday and Friday afternoons at 4:00 P.M. in Emerson Room, and also at 8:00 P.M. Thursday in Huntington Room.

Renowned in Architectural Circles

Mr. Aalto is considered one of the three best architects in Europe at the present time, and is well known in the United States for his work on the Finnish Pavilion at the New York World's Fair. He has had much to do with introducing to the United States the bent-wood chairs that are in use in so many places. He is at the present time making his tour of the United States in his capacity as head of the reconstruction of Finland.

Boat Club Circulates

Petitions On Saturday

Six men were initiated into the Tech Boat Club, honorary crew society, in the pre-season initiation on Tuesday evening. The new members include John Kapinos, '40; Robert Blake, '41; Edgar E. Hayes, '41; Richard C. Owen, '42; William Batt, '41; and Roger F. Morse, '42.

Members of the Tech Boat Club are chosen for their part in the advancement of rowing at the Institute.

He heard about "Eastern's" low round-trip rate and he's off to New York for the week-end!



TO NEW YORK
\$7 ROUND TRIP (30-day limit)
Sailings daily, 5:30 P. M. from Boston
• Due New York 8 A.M. Returning, leave New York daily, 5:30 P.M. Due Boston 8 A.M. \$5 one way. Staterooms \$1 up, for one or two persons. Dinner, \$1. Breakfast, 35c up. Ships sail from India Wharf, Boston. American ships in American waters all the way.
• Tickets, 24 Providence St. (STATLER OFFICE BLDG.), HANCOCK 5810; 50 Franklin St., LIBERTY 5586; India Wharf, HANCOCK 1700.
EASTERN STEAMSHIP LINES

Boit, Dalton, and Church

89 BROAD STREET

BOSTON

INSURANCE OF ALL KINDS