

## NATATORS TO MEET BROWN THIS AFTERNOON

Team Feels Confident of Its Ability to Capture First Meet of the Season—Untersee and Biddell to Star in Dashes

### SUCCESSFUL SEASON EXPECTED

Technology's varsity swimming team, which has been acknowledged through the Institute to be one of the strongest ever formed here, will meet its first opponent today in the Brown university tank at Providence, R. I. Little is known of the strength of the Brown team this year although "Mike" Préndegast, the Brown university star whom Max Untersee defeated in the 50 and 100 yard dashes last year giving an exhibition of the closest sprints ever witnessed in the Brown tank, is no longer with the brown and white.

In the relay race Saturday, Captain Max Untersee, Sydney Biddell, C. W. Seranton and H. S. Colton will swim for Technology in the 50-yard dash, Seranton and Colton will again show their ability. Captain Untersee and either Biddell or H. C. Fish will swim the 100-yard dash and C. D. Green with either C. G. Rudderham or Fish will take part in the 220. For the plunge, Technology has T. J. O'Daly, Jr. and J. H. Rogovin and for the dive, Green, Biddell, Ferdinand or R. W. Purinton.

The team is now getting well under way and is preparing to start the hardest season which has ever been laid out for Institute swimmers according to Manager Richard McKay. The next meet scheduled will be the one with the United States Naval academy which is to be staged at Annapolis, Md., next Saturday.

## FINANCE COMMITTEE TO MEET IN WALKER TUESDAY

The first meeting of the Finance Committee will be held next Tuesday evening in the grill room of the Walker Memorial. This meeting will start with a dinner which will be served at 5.30 and all of the treasurers of the various organizations represented on the committee are requested to be present. The business of the meeting will follow immediately after the dinner.

Chairman George Burt '20, requests that all reports be handed in before this date as failure to do this means the expulsion of the offending activity from the Finance Committee. Treasurers of the following activities must be present: Musical Clubs, The Classes, the Track Team, Swimming Team, Dormitory Committee, Architectural Society, Tech Show, Crew, Cosmopolitan Club, E. E. Society, M. E. Society, Rifle Club, Corporation XV, Boxing Team, THE TECH, Voo Doo, Technique, and Naval Architectural Society.

## DANCE OF TECHNOLOGY GOBS NOW OPEN TO EVERYONE

Tickets for the Naval Unit dance to be held February 15 in Walker Memorial, are now on sale at the Harvard Co-operative store to all Institute men. Last week these tickets could only be purchased by Naval Unit men, but the ruling has since been changed.

Only a limited number of tickets are to be sold, so it will be advisable not to delay buying them, if you intend to be present on the fifteenth to help the "gobs" recall the good old days of the Students Navy Training Corps, when reveille sounded at 5:45. The price of the tickets is one dollar.

### TRACK NOTICE

Members of freshman track team making the Lowell trip, will be at North Station in time to catch 5.38 train. They must have supper before this time

## FRESHMAN CLASS BANQUET WILL BE HELD FEBRUARY 28

Executive Committee To Have Charge Sub-Committees Appointed Friday.

The class of 1922 Banquet will be held on Friday evening, February 28, at 6.30. The decision as to the date was reached at a meeting of the officers held last Monday. It has been customary for such affairs as this one to be run by the Juniors, but as it is held much later this year than usual, the executive committee will have complete charge. It was at first thought that the dinner might be held after Field Day, as it always has been, but it was decided to hold it at an earlier date, on the possibility that Field Day will come near the next vacation. At a meeting held Friday, at five, in room 10-275, the sub-committees were appointed, and their various duties explained.

The committees are: Executive committee Henry C. Gayley; Advisory committee, Sydney M. Biddell, Ernest N. May; Entertainment committee, Abbott L. Johnson, William C. Roberson, Francis W. Walton; Dinner committee, Frederick N. Dillon, Francis G. Davidson, Roswell H. Baker; Ticket committee, Paul S. O'Brien, Elmer W. Hammond, John Barrows; Decoration committee, Thomas E. Shepherd, Joseph Christoph, Edward F. Bowditch.

## UNIQUE DANCE ARRANGED

Lithuanian Songs and a Varied Program to be Given at the Cosmopolitan Club Dance

"Lithuanian night," the first social event to be given by the Cosmopolitan club this year, will begin with a concert in the Walker Memorial tonight at 8, following which there will be dancing until 11.30. Although the affair is to be given primarily for members of the club, the president has said that tickets will be on sale at the door for any members of Technology who may wish to avail themselves of the opportunity. Professional entertainers have been secured and will give a performance which will last about an hour.

The program which has been arranged for the evening follows: Piano selections by Anthony Lutkevich; Lithuanian songs by Miss Margaret F. Monack accompanied by Miss Emily Stankus; piano solo by Miss Emily Stankus; vocal solos by Miss M. F. Monack and Lithuanian dances by Miss Eva Euronis. The patronesses who have been asked to attend the event are Mrs. R. C. MacLaurin, Mrs. A. E. Burton, Mrs. Frank Aydelotte and Mrs. H. L. Seaver.

Mr. Dumas states that the club hopes to be able to run at least four more such affairs. The remaining entertainments will probably consist of a Chinese Night, an International Night, a Russian Night and a Spanish Night.

### INTERFRATERNITY BOWLING

Wednesday night at the Massachusetts Bowling Alleys the Delta Upsilon team defeated the Sigma Chi team by a score of three points to one. The total pinfall for fifteen strings for the winners was 1226 and for the losers 1235. Any fraternity team wishing to challenge the winners will please call up or see V. J. Byron '20.

### CHEMICAL SOCIETY HOLDS OPENING SMOKER AT WALKER

The first meeting of the Chemical Society will be held Wednesday, February 12, at 7.45 P. M. in the Dormitory Dining Room of the Walker Memorial. Prof. Talbot will talk and Prof. Lewis will speak on Gas Masks. This subject was presented recently before the American Chemical Society, and promises to be interesting as well as instructive. There will be smokes and eats and a general good time is promised to all that attend.

## ELECTRICALS HEAR DANIELS AT SMOKER

N. H. Daniels '96, Head of Employment Bureau of Stone and Webster, Speaks on Labor Conditions

### MORE TRIPS TO COME

The Technology branch of the American Institute of Electrical Engineers held its second Smoker this year, last Wednesday night in room 4-370. President Harmon B. Deal '20, in making the opening speech, expressed his gratification at the number of members present and urged those to persuade others from courses VI, XIV, and XV to join the Society. President Deal then introduced the speaker of the evening, Mr. N. H. Daniels '96 from Stone and Webster. Mr. Daniels is head of the employment bureau of his company, and in this capacity has an unusually good opportunity to observe labor and building conditions. As he was requested to talk on non-technical subjects, Mr. Daniels proceeded to explain the situations he knew best, namely labor and reconstruction. He began by outlining briefly the money conditions during the war and at present, adding that the problem of readjusting business now was extremely difficult owing to the uncertainty of the money market.

Mr. Daniels said that labor conditions would probably not return to normal for some time, but he thinks that a settled condition will soon be established which will permit safe investments. Mr. Daniels next took up the reconstruction situation. He said that many people believe that there is a lot of business laying over till after the treaty is signed and then Mr. Daniels proved that while there is a great amount of repair work which will be undertaken, big companies will not build new buildings now, because the price of material might go down and there would therefore be a big loss. He also stated that many will probably move into new buildings which were constructed for purely war purposes and which will undoubtedly be left vacant after the factories have shut down. He then told a very humorous story how somehow a rumor was spread that Stone and Webster was to reconstruct most of Belgium. Immediately people flocked by the thousands to his office for employment and his department was swamped. He had to tell all of these that the rumor was absolutely without grounds, and even throw some unbelievers out of his office. Mr. Daniels wound up by saying that France would probably do most of her reconstruction herself as it would not lessen her debt to us if she bought material and labor here. After this speech, Mr. Deal again addressed the meeting telling them that there were five other trips in prospect—a visit to the Simplex Wire and Cable Co. the Cambridge Electric Light Co. the Motor and Turbine department of the General Electric Co. and the trip which will probably be made this week to the Edison power plant in Boston. After President Deal finished speaking, the hundred fellows present got the "trimmings" of a regular Smoker, namely cider and doughnuts.

### WIRELESS SOCIETY SMOKER

At a meeting held yesterday the M. I. T. Wireless Society was reorganized and the following officers elected: Harry P. Field '21, president; H. P. Maxim '22, vice-president; N. F. Patton '21, secretary; M. Burke '20, treasurer.

The society will hold its first smoker in room 4-370 on Tuesday, February 11, at 7:30 p. m., and all men interested in radio work are invited to attend this meeting.

Professor A. E. Kennelley of the Electrical Engineering Department of the Institute will deliver a lecture on radio engineering. Refreshments will be served and several important announcements will be made.

## COURSE IN UNDERGRADUATE FINANCE AND ORGANIZATION

To Be Given Under the Direction of The Alumni Advisory Council on Undergraduate Activities.

Thanks to the efforts of THE TECH, the Alumni Advisory Council on Undergraduate Activities is to conduct a course of ten lectures on subjects which are vital to the proper carrying on of Undergraduate Activities. The course is primarily one of educational value to the Treasurers who are in office at the present time, and for those who have any idea that they would like to serve the Undergraduate Association in the capacity of treasurer of one of its Activities. It is felt that when an Association handles between forty and fifty thousand dollars in the course of a year that there ought to be a large number of men in the Institute who have an intelligent working knowledge of The Institute Committee and its associated committees and activities. It is also felt that it is important to understand certain specific phases of business and administrative methods.

To these ends a course of lectures, extending over six weeks, will be given by recognized authorities in the following subjects: Book-keeping, Accounting, Auditing, Banking, Advertising, Circulation, Organization, Printing, Report Writing, Organization of the Undergraduate Association, The Institute Committee, The Budget Committee, The Finance Committee, and The Student Tax.

The course is open to all students in the Institute. The first meeting will be held on Wednesday, February 12, at five o'clock in Room 2-190. At that time an outline of the Course will be presented and the time at which the lectures shall be given will be determined by those present.

Leading directly from this course an examination will be given to all those who wish to continue a course in Book-keeping and Accounting, this course being in the nature of a competition for Treasurer of THE TECH. A treasurer of THE TECH will be elected May 1, 1919, and the successful candidate must have attended all of the Lectures and passed the course in Book-keeping and Accounting.

## THEY'LL PLAY AT BOWLS

Intersection Dormitory Matches To Begin On Walker Alleys Tuesday

Intersection bowling matches is the latest activity to be started in the dormitories and the first shot along these lines will be fired Tuesday night in the Walker Memorial alleys, which will be reserved for the dormitory contests three nights every week. No definite program has been arranged as yet but it is planned to organize two distinct leagues which will play for championships individually. The first of these will be composed of the crack players in each section and will constitute the representative team of that house while the other will be made up of as many teams as the various houses can furnish regardless of the ability of the men on them. Places on the varsity teams will be obtained by competition. The chairman of each house is managing the affair at the present time although this burden may later be shifted to some one who will be elected. It is possible that in addition to playing the other houses in the dormitories the representative teams may try their skill against the various fraternities.

### DAYTON TO BOSTON FLIGHT POSTPONED

On account of a delay in orders from Washington, the proposed airplane flight which was to have started from Dayton, Ohio, last Thursday and been completed yesterday with a landing on the Institute parade ground did not materialize. It is possible, however, that a flight similar to the one planned will be made sometime in the near future

## FRANKLIN SQUARE HOUSE HEARS MUSICAL CLUB

Dance At End of Evening Enjoyed by All the Members. "O Death, Where Is Thy Sting?" Is Hit of The Concert. — Eksergian Plays Well

### CONCERT A SUCCESS

The Combined Musical clubs held the first concert of the season, last Tuesday night in the Franklin Square house. The affair was a most decided success, considering the short time which the clubs had in which to get ready. The auditorium was overcrowded with the girls who live there and their friends. A few fellows from Technology were scattered in the rear of the hall. At the end of the concert, the best event of the evening occurred, namely a dance in the ball room. A lot of good-looking, well-dressed girls were present, and every member of the clubs enjoyed the dance immensely. The concert began at eight sharp.

The program was as follows: Opening number—"Take Me Back To Tech" by the Glee Club, "Narcissus" by the Mandolin club, "The Kilties March," by the Glee club, a reading by Lawrence W. Conant '21, "Some Shape," by the Banjo Club, and then an intermission. Immediately after the intermission came "A Wee Bit O' Scotch" by Conant, "Laughing" by the Glee club, a cello solo by Carolus L. Eksergian '20, seconded by Willard B. Purinton '22, "A Dream" by the Mandolin club, "Sketch In Black," and "The Cardinal And Grey" by the Glee Club.

As is customary at every Technology concert, the opening song was "Take Me Back To Tech." In this as in the numerous other numbers, the Glee Club did exceedingly well, and the hearty applause of the audience showed how it enjoyed the singing. The numbers of the Banjo club were ably rendered, and its leader, Roderick Blood '19 deserves commendation for the way in which he has gotten the club together. The club is unusually large this year, and showed lots of pep. In the past, the work of the Banjo club has been greatly appreciated, and it is living up to its reputation. The Mandolin club handled itself very well, and its rendition of "A Dream," an old song by Bartlett

(Continued on Page 3)

### TECH SHOW NOTICE

There will be a meeting of men who intend to write lyrics or music for the Show on Monday at 4 in the Show office in Walker. Men who have classes at 4 may report at 5. The object of the meeting is to explain the requirements for Tech Show music and lyrics and to give suggestions regarding the work.

### CALENDAR

- Saturday, February 8
  - 8.00—Cosmopolitan club dance—Walker Memorial.
- Monday, February 10
  - 5.00—Glee club rehearsal—Room 10-250.
  - 4.00-6.00—Meeting of men interested in writing lyrics and music for Tech Show—Tech Show office.
  - 6.00—Banjo club rehearsal—Room 1-190.
- Tuesday, February 11
  - 5.00—Mandolin club rehearsal—Room 1-190.
  - 5.30—Finance Committee meeting and Dinner—Walker Grill.
- Wednesday, February 12
  - 5.00—Activities Committee meeting—Room 10-275.
  - 8.00—Catholic club smoker—Room 2-190.
  - 5.00—Banjo club rehearsal—Room 1-190.
  - 7.45—Chemical society smoker—Walker Memorial.

# The Tech

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Although communications may be published unsigned if so requested, the name of the writer must in every case be submitted to the editor. THE TECH assumes no responsibility, however, for the facts as stated nor for the opinions expressed.

## IN CHARGE OF THIS ISSUE

R. H. Smithwick '21 ..... Night Editor  
Henry C. Gayley '22 ..... Asst. Night Editor

SATURDAY, FEBRUARY 8, 1919

## AN ALUMNUS ON "CLASS SPIRIT"

THE following letter from one of the Institute's prominent alumni is an expression typical of the feeling current among the graduates concerning the flag-pole fight between the freshmen and the Sophomores a short time ago.

"My dear Editor:

"Last week, Monday, I happened to be in Boston and, as is always my practice at such times, I visited Tech. I don't think anyone can fully imagine my feelings at seeing the class numerals '21' chalked on the base of one of our fine flag poles. What was the trouble? Is the class of '21' composed of rough necks or has the pride for the looks of our beautiful buildings and grounds degenerated.

"I advisedly used the expression "Class of '21" for I can't imagine any class with the true spirit of Technology permitting that desecration to stand over night. There is nothing smart in this sort of class spirit, in fact, it serves only to degrade. I certainly hope that the entire student body of Technology will wake up to the fact that that class has the best spirit and is the most honored that does the most towards beautifying its Alm Mater. The action of putting those numerals on the bronze base of the flag pole is worthy of the rah-rah boys of a back woods school and I hope that in the future alumni, who have a love and pride in their school, may not be saddened by such a sight as greeted my eyes last week, Monday.

Very truly yours,  
(Signed) Mayo Tolman, Chief Engineer,  
State Department of Health.

## WHERE SHALL THEY EAT?

IT is evident that more students bring their lunches this year than has been the case during the past few years. Some place ought to be designated where these men may go to eat. There are two reasons why such a provision is imperative. At present nearly all of these students eat their lunches in the locker rooms or the engineering laboratories. None of these places should be used for that purpose. The atmosphere in the locker rooms in particular is uninviting and stuffy and all loitering in them should be discouraged.

Furthermore, as a result of their use as eating places, the locker rooms and engineering laboratories are often strewn with paper and refuse. This is especially annoying in the laboratories, where the tables must be used by classes; and, besides, it is neither clean nor sanitary. While the students should be more careful to keep the premises in a respectable condition, a certain amount of litter is unavoidable. Therefore it would be much better, to reserve a good place for eating, and to require those who bring their lunches to use it; for it would be an easy matter to keep the one room clean, and the general appearance and healthfulness of our buildings would be materially improved.

## Alumni Notes

The following citation of TOM W. SAUL '10, appeared in the Transcript "Saul, Tom W., First Lieutenant, Tank Corps. For extraordinary heroism in action near the Bais de Lemieres, France, September 12, 1918.



T. W. SAUL '10

Lieutenant Saul coolly exposed himself to enemy fire by standing on the parapet of a trench and directing his men in the work of getting the tanks forward. Home address, Mrs. Tom Saul, wife, 440 East Seventeenth street, Portland, Oregon."

Fred Dunlap Mendenhall '14, who is a first Lieutenant in "E" Co., 7th Engineers, and whose exploits won him a Distinguished Service Cross, received the following citation: "1st Lieutenant Fred D. Mendenhall, Engineers, for great courage and leadership and disregard for personal safety, in the region of Bois de Rappe, near Cunel, France, on October 20, 1918. Lieutenant Mendenhall dis-



F. D. MENDENHALL '14

played great courage and leadership and disregard for personal safety while conducting the operations of his platoon in wiring in the outpost of the Infantry, which was subjected to being counter-attacked by the enemy. The work was conducted under extremely heavy machine gun fire and shell fire and it was only due to Lieutenant Mendenhall's exceptional ability of leadership that the important mission was accomplished.

Louis W. Currier '14, of South Acton has accepted a position as assistant professor of geology at Cornell University. Professor Currier served during the war in the department of military acoustics at Cornell. He is the son of Dr. Walter B. Currier, a South Acton dentist.

Word has just been received that Geoffrey L. Reid '16, formerly Motor Inspector, Bureau Steam Engineering, Navy Dept., Washington, died on December 13, 1918. He had received a medical discharge from the service on the third day of April, 1918, and had been in ill health from the time of his discharge.

Alumni personals, news of class and alumni associations, and other alumni activities will be gratefully received. The prompt arrival of such information will facilitate the work of the Associate Editor in making the department as timely and complete as possible.

## INSTITUTE COMMITTEE MEETS

A regular meeting of the Institute Committee was held Thursday, February 5th, 1919, in Room 10-275. President Nash called the meeting to order at five-ten, and stated that beginning with this meeting any body not having its total representation present at two consecutive meetings of the Institute Committee would lose its representation, as provided in the Constitution.

Upon motion duly made and seconded, it was voted that "two Committees be appointed by the Chairman of the Institute Committee, consisting of three men each from the Class of 1920, for the purpose of (1) Arranging for the elections of the Electoral Committee for Technique 1921 and (2) Arranging for the elections of the Junior Prom Committee."

It was then moved and seconded that "it be the sentiment of the Institute Committee that at the Field Day, to be held in April, Push Ball be one of the games played." After considerable discussion, in which several men declared that the game should not be played with a small number of men on each side, the motion was amended by the additional clause "And that a large number of men be on each side." A vote was taken on the motion as amended which resulted in a tie. The opinion was then expressed by those who opposed the motion that the Institute Committee was over-stepping its authority to suggest the number of men to be engaged in the contest, whereupon the amendment was withdrawn, and the motion, as previously stated, was passed.

Upon motion duly made and seconded it was voted to adjourn.

Adjourned at five-forty.

Messrs. Bawden, Untersee, H. O. Davidson, Landis, and Ryder were absent.

HOMER V. HOWES, Secretary.

## CATHOLIC CLUB HAS ELECTIONS

The Catholic Club held their annual elections Wednesday evening at eight o'clock in room 2-190. The following men were elected: E. J. Coughlin '20, president; J. H. Bayle '21, vice-president; A. L. Kerrigan '21, secretary; J. F. Maguire '17, treasurer. Father Driscoll of St. Mary's Catholic Church was to speak, but it was impossible for him to be present so Maguire, who was a corporal in the Chemical Warfare Service, stationed at Cleveland, Ohio, gave an interesting talk on his experiences and observations while in this branch of the service.

## SECOND DORM DANCE MAY BE HELD THE 28TH

Plans for a second dormitory dance, which is to be more exclusively a house affair than the first, are at present being formulated. Although no definite announcements have as yet been made, it is probable that the date of the affair will be February 28 and that the music will be furnished by Loew's orchestra. In order to keep the dance within the limits of the dormitories, no tickets will be placed on sale as was the case of the first, but men living in the dormitories will be able to secure tickets for those friends whom they may wish to invite. Further particulars concerning the affair will be announced with in a short time.

## LOST ARTICLES

The following articles found by the students are being held in the Superintendent's office:

One pair of opera glasses, three knives, one fountain pen, one wrist watch guard, gold ring with letters "B. L. S. 1917," one pair of spectacles, one watch chain, one gentleman's umbrella, four tickets for dance given by Royal Outing Club, one black silk scarf, one army hat, one pair of black leather gloves, the Deck and Boat Book of the U. S. N., the English of Military Communications, Ganoe; Quantitative Chemical Analysis by Talbot; one small loose leaf note book, one large folio, one small photograph album, Synthetic copies of Plane and Spherical Trigonometry by Passano; "El Toxo"; notes on the Ionic Theory, one Webster's dictionary, one Well's New Four Place Log Tables, Sous Les Armes, by Morand. Watch found November 20th, came ring found about January 1, wrist watch. Information regarding the above articles may be had at the superintendent's office.

## DEAN BURTON ADDRESSES WENORAH SOCIETY SMOKER

The Technology Menorah Society held its first smoker of the season Friday at 7:45 p. m. in the North room of the Walker Memorial. About seventy men were present, and all signed up as members of the society. The meeting was opened by secretary James J. Wolfson '20, the only remaining officer of the society. He outlined the objects and ideals of the society, and its plans for the year. He said that he had been fortunate enough to arrange for such well known persons as James Starrow, Filene, and others to speak at future meetings. He also stated that although the object of the

society was the study of Jewish literature, culture and ideals, it was distinctly non-sectarian, and that any Technology student was eligible to membership. He then introduced Dean Alfred E. Burton.

Dean Burton gave a short sketch of the start of the Intercollegiate Menorah movement, and told the men why they should join the society, and the benefits that they would derive from its meetings. He stated that the reason that he had come to address the meeting was to show his interest in the society, and because he was convinced of its value as one of the humanizing factors in Institute life. He went on to say that he was entirely out of sympathy with any society that tended to keep its members in the rut of their old environment, but that he knew, as one of the aiders in founding the society, that its field was entirely non-sectarian, and that it was worth the while of any one to find out what the Jewish race has contributed to the civilization of the world. The fact that the Jewish bent was not towards engineering and science, would aid those who studied its literature, culture and ideals to broaden their minds. He ended by wishing the society success in the task that it had undertaken.

Professor Floyd E. Armstrong, of the Economics department, then gave a very interesting talk on the subject of socialism, emphasizing the fact that the engineers attitude towards the reform should be of a frank, honest, careful, and sympathetic nature. The talk was of an impartial and descriptive character, and won the interest of all those present. A ten-minute discussion from the floor followed, which showed that Technology students can grasp social ideas, and deliver their opinions in a way that is to be envied by many a law student.

Acting president Wolfson then introduced past officers Hyman Selya '19 and Joseph J. Kaufman '19 of the instructing staff. Both promised their active support towards making the society a success. Wolfson then announced that owing to the fact that the attendance was so large it seemed advisable to proceed with the elections and not to wait till Friday evening as was previously announced. The motion was carried, and the following officers were elected:

President, James J. Wolfson '20; vice-president, Meyer Saxe '20; secretary, William N. Barron '20; treasurer, Herman J. Marovitz '20; president of the executive committee, Myer H. Naigles '20; executive committee, Rosimond N. Raphael '21, and Harry H. Finkel '22.

The meeting adjourned, and the men had some music and refreshments in the shape of doughnuts, pretzels, cheese and cider.

## HOW MANY OF THESE QUESTIONS CAN YOU ANSWER?

Each year the Independent Magazine publishes a list of general questions, which are given to the boys and girls of Friend's School of Baltimore and of Germantown, Pa. They are excellent tests of one's knowledge of current events. Just see how many you can answer off-hand.

Name: 1, The Food Administrator of the United States; 2, the Director General of Railroads; 3, the Secretary of War; 4, the Secretary of the Navy; 5, the general in command of the American troops in France; 6, the President of the United States Senate; 7, the Prime Minister of France; 8, the British Ambassador to the United States; 9, the great French sculptor recently deceased; 10, a sculptor of Lincoln; 11, the President of France; 12, the state which granted suffrage to women, November, 1917; 13, the party or organization which deposited Kerensky; 14, the organization to which the Nobel Peace Prize for 1917 was awarded.


In what way distinguished: 15, Viscount Ishii; 16, Lord Northcliffe; 17, Nicholas Murray Butler; 18, Katharin Breshkovsky; 19, Ferdinand Foch; 20, Sir Robert Borden; 21, Anna Howard Shaw; 22, Rosa Bonheur; 23, Leon Trotsky; 24, Count von Hertling; 25, James W. Gerard; 16, Sir Herbert Beerbohm-Tree; 27, George Eliot; 28, Florence Nightingale.

Explain: 29, Personal magnetism; 30, No Man's Land; 31, wolf in sheep's clothing; 32, bricks without straw; 33, the Blesses; 34, barrage; 35, habas corpus; 36, status quo ante; 37, mercurial temperament; 38, neutralizing traits; 39, an utopian project; 40, the House of Hanover.

## Increased Cost Necessary.

The increases in cost of operation which have occurred in the period of Federal control undoubtedly would have been equally operative had the railroads remained under private control. If the private owners had operated the railroads during the past year they either would have had to increase the rates as the Government did or they would have had to face an enormous deficit.

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Boston, Mass.

any, biology, Sanskrit, numismatics and the art of the Renaissance; otherwise he is sure to become only an imperfect plumber, a dull witted journeyman who is likely on any job to make a sad mess of the pipes. It is difficult to imagine the courses that should be specialized in by a theological student. We can only guess that he should go in strong for domestic science, the history of rug weaving, optometry, elementary Bolshevism and applied block-printing. Without some such foundation his sermons might tend to lack in human interest.

Of course, The Little Journal has sounded a certain fundamental truth in this vest-pocket essay. The "practical" ignoramus who boasts of his ignorance is likely to be a rather exasperating encumbrance in any line of work. All things being equal in other respects the man who has the enlightenment of a broad and general education has a tremendous advantage over the one who knows little or nothing outside the bald technicalities of his trade. And yet we have known men who were so well educated that they were completely spoiled for any practical pursuit. The notion that "boning up" on English literature, biology, geology, psychology, and all the rest of it is absolutely essential to the training of a chemist seems rather strange.

**MUSICAL CLUBS CONCERT**  
(Continued from page 1)

aroused much enthusiasm in the listeners. Eksbergian showed his usual ability on the cello, and was ably seconded by Purinton. Conant's work was excellent, and his impersonation of Harry Lauder was the first act of this kind given by the Musical clubs in the last two years. A "Sketch in Black," the same given at the recent smoker, was put across with some success, and was the hit of the evening.

The personnel of the clubs which was present at the concert is in the Banjo club:

First Banjos: J. R. Bartholomew, R. M. Blood, W. T. Hedlund, M. B. Knox.  
Second Banjos: W. T. Adams, R. I. Bradley, I. F. Chambers, H. A. Gray, W. Horlick, A. L. Silver, D. E. Stagg.  
Third Banjos: C. A. Breed, L. W. Bugbee, A. S. Houghton, H. N. Landis, H. L. Levin, S. B. Neily, T. E. Shepherd.

Banjo Ukulele: O. F. Neitzke.  
'Cello: L. Weinberg.  
'Cello Banjo: J. L. Leitye.  
Cornet: G. E. Farmer.  
Drum: E. J. Thimme.  
Piano: D. M. Minton.  
Saxophone: A. E. Smith.  
Violin: F. Walton, W. T. Hedlund, D. Temkin.

Mandolin Club: C. A. Breed, L. J. Powers, G. A. Woodward, W. Knight, E. W. Baldwin, H. D. Baldwin. First mandolins: E. R. Hermann, R. Huges, W. T. Rich, T. Shepherd, S. F. Chambers, W. K. Clements, B. G. Albert; second mandolins: T. W. Alder, Becker, T. H. Elliot, S. W. Whitman, W. T. Adams, C. A. Dutton; third mandolin, J. C. Liecny; guitar, Bugbee; mandocello, Tanner; cornet, Weinberg; cello, Maghie; violin, R. I. Bradley; mandola, E. J. Thimme, drums, and R. C. Bishop, flute.

Glee Club: G. Ahern, F. Akers, H. R. Dorr, W. A. Hoops, A. L. Johnson, C. S. Knight, S. E. Nickols, M. Saxe, F. G. Davidson, A. H. Rodriguez. First Tenors: D. I. Akerly, C. C. Carvin, E. C. Clark, S. J. Hill, K. Tetter, S. Leland, A. Vitler, R. G. Stall, Fuller, Second Tenors.

Addicks R. C. Bishop, A. H. Fletcher, K. P. Coachman, L. B. Davis, J. Greenblatt, C. D. Grover, E. R. Hanson, A. W. Norton, L. A. Lloyd, A. W. Peterson, B. F. Rogers, U. Stevenson, M. M. Whitaker, D. E. Walsh, O. G. Williams, R. Rundlett. First Bases.

T. R. Bartholomew, L. W. Conant, H. R. Couch, G. A. Dutton, H. O. Davidson, E. R. Herman, A. S. Houghton, J. H. Keenan, W. H. James, J. Liecny, S. E. Lunden, W. Wirt, Lenori, Second Base.

Rogers Piano.

**NATURAL INDIGO INDUSTRY**

With the cutting off of the synthetic indigo supplies from Germany since the outbreak of war, the natural indigo industry has come into its own and the cultivation of the crop has considerably increased. While the total area under this crop in 1914-15 was only 148,400 acres, in 1915-16 it rose to 353,100 acres, and in 1916-17 to 756,400 acres. The greatest increase, both absolute and relative, occurs in the Madras Presidency and in the United Provinces, where the industry is mainly in the hands of small holders and the dye manufactured is of inferior quality. In Bihar, where a superior dye is manufactured, mainly in large factories, the increase of area in 1916-17 was about 33 per cent as compared with 1915-16. The yield of indigo increased from 55,000 cwt. in 1915-16 to 95,000 cwt. in 1916-17, Madras contributing two-thirds of the total production. Both the average and the out-

put in 1916-17 were, however, only half of what they were in 1895, when the synthetic product came into the market. The forecast for 1917-18 puts the average at 690,000 acres and the output at 87,000 cwt. The future of the indigo industry, says the Board of Trade Journal, depends (1) on a good and sufficient supply of seed, (2) on an increase in the output of green leaf, (3) on improvement of manufacture, (4) on organization in marketing, (5) on elimination of the practice of adulteration.

**VISITORS AT PARIS BUREAU**

The Technology bureau of the American University which at Paris has sent notice of the following visitors there who are students or Alumni of the Institute.

December 26th, 1918: G. Hilton '15.

December 29th, 1918: Clarence A. J. Birnbaum '15, Paul H. Buxton '16, Ernest E. Polley '15, D. N. McRae '16, Albert W. Chase '17, Ralph Millis '16, J. R. Kelly '17.

December 30th, 1918: R. B. Bagby '16, S. E. Rogers '13, Robert T. Collier '18, Geo. S. Stevens '14.

December 30th, 1918: Allen A. Gould '10, John R. Humermann '16, James A. Given '10.

December 31st, 1918: Joseph Desloge '12, Kenneth King '15, Granville B. Smith '18, J. W. Barker '16, H. B. Allen '18, Robert N. Wells '18, G. M. Steese '16.

January 1st, 1919: Ernest C. Bomar '18, Paul H. Duff '16, E. L. McDonald '13, Freeman Clarkson '16, Douglas M. Buckett '19, James G. McDougall '16, Lyall L. Stuart '20, R. W. Hall '17, Richard H. Catlett '17, E. N. Winslow '18, W. V. Dodge, Jr. '16, Paul H. Buxton '16, Harold P. Gray '16, W. T. Spalding '10, E. R. Wait '91.

January 3d, 1919: David L. Patten '16, G. N. Steese '16, Stephen Baldam '00, Walter F. O'Brien '12, C. A. Coleman '16, D. P. Daniels '16, W. P. Muther '13.

**HONOR LIST OF TECHNOLOGY HAS NAMES KNOWN TO MANY**

A continuation of the revised honor list of the Institute is printed below. The first part of this list was printed several issues ago, but lack of space has prevented the publication of the remaining names up to this date.

Rogers, Newell Willard '14. August 1, 1918. Cadet, Chanute Field, Rantoul, Ill. Killed while flying.

Wooten, James C. 2d '18. August 3, 1918. 2d Lt., 1st Aero Sq., A. E. F. Killed in action, France.

Simmons, Frank Ronald '10. August 12, 1918. Capt., Intelligence Service, Paris. Died of pneumonia at Marseilles, France.

Pero, Donald Cary '19. August 24, 1918. Ensign, U. S. N. R. F. C. Killed in a seaplane accident off Fire Island.

Atkins, Arthur K. '17. August, 1918. 2d Lt., 165th Inf. Died of wounds received in action.

Herrick, William F. '11. September 15, 1918. 1st Lt., Air Service, killed in an aeroplane accident in France.

Kimball, Scott P. '11. September 23, 1918. Died of pneumonia, Camp Upton, New York.

Bates, Oric '07. October 3, 1918. Died of pneumonia, Camp Zachary Taylor, Ky.

Waterbury, Charles Dann '95. October 9, 1918. Died in Walter Reed Military Hospital, Washington, D. C. of bronchial pneumonia. Capt., Q. M. C. Engrs.

Smith, Winthrop F. '18. October 10, 1918. Died of pneumonia at Bay Shore, Long Island. Ensign, U. S. N.

Ware, Ernest A. '09. October 11, 1918. 1st Lt., B Co., 506th Engrs. Died of Disease at Bordeaux, France.

Morrison, Phillips G. '16. October 12, 1918. Died of pneumonia at Aberdeen Proving Grounds. Capt., Ord.

Stephens, Albert Leslie '06. Oct. 12, 1918. Lt., Engrs. Died at Camp Humphreys, Va., of pneumonia.

Miller, Erilbert Talmadge '14. October 13, 1918. 2d Lt., Constr. Div., Avia. Killed in a collision between a street car and an automobile in which he was riding at St. Paul, Minn.

Guething, Theodore H. '15. October 15, 1918. 1st Lt., Ord. Died at Picaunty Arsenal, Dover, N. H., of pneumonia.

Uhlinger, James Philip '16. October 16, 1918. Sig. Cps. Avia. Died of pneumonia at Camp Meade, Md.

Alexander, E. Porter '14. October 22, 1918. 1st Lt., Hdqrs. CC, 509th Engrs. Serv. Bu., A. E. F. Died of disease.

Tierney, Harold Joseph '17. October 22, 1918. Lt., Camp Vail, Little Silver, N. J. Died at Camp Vail of pneumonia.

Brownlee, Malcolm B. Jr. '11. October 26, 1918. Pvt. 313th M. G. Bn., A. E. F. Died of disease, Base Hosp., France.

Sprague, William G. '16. October 26, 1918. Ensign, U. S. N. R. F. C. Killed in a landing accident at Ile Tudy, Finistere. Won Croix de Guerre for attacking and sinking an enemy submarine.

Althouse, George Nathan '15. Oct. 1918. 1st Lt., H Co., 315th Inf. Died in hospital of wounds received in action.

Rideout, Percy A. '11. October, 1918. 2d Lt., Engrs., 30th. Killed in action. Garnsey, Arlo E. '19. October, 1918. Cadet, A. S. C. Died of disease in hospital, Brest, France.

McKenney, Karl Cushing '12. October 30, 1918. Capt., C. A. C., A. E. F. Died of Bronco-pneumonia, overseas.

Ervey, Ervey Bronaugh '16. November 1, 1918. 2d Lt., 21st Inf. Died in Washington, D. C. of influenza while on special duty.

\*Handy, William Russell, S. A. T. C. '20. November 1, 1918. S. A. T. C. at M. I. T. Died of pneumonia.

Atkinson, Henry M. Jr. '17. November 2, 1918. Capt., A. Btry., 71st Art., C. A. C. Died of pneumonia at Angers, France.

Chidsey, Halmer C. '20. November 3, 1918. Candidate, C. A. C. Sch., Fort Monroe, Va. Died of pneumonia.

Paine, Albert Ingram, S. A. T. C. '22. November 3, 1918. S. A. T. C. at M. I. T. Died of pneumonia.

Chadwick, James B. Jr. '14. November 4, 1918. 1st Lt., 337th Tank Corps. Died of pneumonia while sailing for Europe.

Greene, John Beach, S. A. T. C. '22. November 4, 1918. S. A. T. C. at M. I. T. Died of pneumonia.

\*Dollbaum, Maximilian Paul, S. A. T. C. '21. November 7, 1918. S. A. T. C. at M. I. T. Died of pneumonia.

Homer, Joseph Warren Jr. '19. Nov. 9, 1918. Ensign, U. S. N. R. F. C. Died of pneumonia in London.

Honeyman, Bruce R. '06. November 9, 1918. Capt., A. Co., 313th Engrs. Died of disease, A. E. F.

Bascom, Edgar D. '15. November, 1918. 2d Lt., B Co., 101st Engrs., A. E. F. Killed in action.

Griffin, Ronald B., S. A. T. C. '21. November 14, 1918. S. A. T. C. at M. I. T. Died of pneumonia.

Tutein, Chester R. '18. November 17, 1918. Aviation. Killed in aeroplane accident in France.

Cook, Howard Martin Jr., S. N. T. C. '22. December 17, 1918. S. N. T. C. at M. I. T. Died of pneumonia.

Curry, Donald, S. N. T. C. '21. December 17, 1918. S. N. T. C. at M. I. T. Died of bronchial pneumonia.

Jones, Granville R. '07. December 22, 1918. Capt., Sanitary Engr. Died of pneumonia at Columbus, Ga.

\*Died while awaiting induction.

Greenough, Gordon '14. May 1, 1918. Lt. Ord. Dept. Died at the Reed Hospital, Washington, D. C.

May, James De Grier '18. May 9, 1918. Lt., Officers Hdqrs., Kelly Field No. 2, Texas. Killed.

Angell, Cyril M. '18. May 14, 1918. 1st Lt., 147th Aero Sq., A. E. F. Killed in action. Was pilot in the same machine with W. K. B. Emerson, Jr.

Emerson, W. K. B. Jr. '20. May 14, 1918. 2d Lt., 15th F. A., A. E. F. Killed in action while acting as an observer in the plane in which Cyril Angell was pilot.

Gould, Prescott W. '18. May 23, 1918. C Co., 102d Machine Gun Bn., A. E. F. Killed in action.

Roper, George Jr. '17. May 27, 1918. Cadet, British Royal Flying Corps. Killed in an accident in England.

Wyman, Alfred Theodore '16. May 27, 1918. Lt., British Royal Flying Corps. Killed in an accident.

McDonald, Charles S. '99. May, 1918. Red Cross. Died in Paris.

Swan, Leroy Amos '17. June 19, 1918. 2d Lt. Killed at Wilbur Wright Aviation Field, Springfield, Ohio, when airplane collapsed.

Parsons, Arthur M. '18. July 3, 1918. Killed by propeller. Received fractured skull at Talliaferro Field, Texas. 2d Lt., Aviation.

Santos, Alexander H. '19. July 15, 1918. Killed in an airplane accident. Brook Field, San Antonio, Texas. 2d Lt., Instructor in Aviation.

Wasgatt, Harold Clinton '19. July 19, 1918. Died of wounds received in action. 1st Lt., 59th Inf.

Brown, Malcolm Cotton '18, July 24, 1918. Lt., Royal Flying Corps, England. Killed in airplane accident.

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**DO YOU KNOW GREEK?**

"The Little Journal" Says Cultural Subjects Are A Requisite of The Engineer.

Ideas on a technical education which depart somewhat from the stereotyped formula now held by the average layman and the majority of experts is set forth in a recent issue of The Little Journal, a publication issued by Arthur D. Little, Inc. a firm of chemical engineers in New York city. The plan advocated therein seems in violent contradiction to the systems on which great stress is laid by the various experts who write books on "How to become something in particular."

Speaking of the essential points in any specialized vocation and particularly chemistry The Little Journal says: "Please do not think that if you study chemistry and just enough physics or mathematics to see you through it will make you a professional chemist. It only teaches you the laboratory trade; makes you a chemical journeyman; a substitute indicator; a poor thing at best. We shall not want you, and we do not know anybody with better than hackwork who does. If you want to be a chemist and to enter the industrial field, please bone up on the English language and literature, on Greek literature even if you miss the language, on science history as well as you can; on French and German, biology, geology; economics, and elementary psychology, along with your mathematics and physics. We can stand a lot of faults in chemists, but the Smart Aleck who is so practical that he boasts of his ignorance is too much for us."

Commenting on this article, The New York Times says:

Now, we do not quite know what to make of this. Here is an eminently practical authority telling what is wanted and what is not wanted in the way of technical preparation, and we have to believe in the sincerity of the declaration. Yet, if this principle is right in a training for chemistry, which is about the most highly specialized of all the sciences, it surely ought to apply quite a forcefully to all other vocations.

Wild thoughts are suggested as to the possible or probable studies that should be followed by a young man who is preparing for the ministry or for the practice of plumbing. The latter, we may surmise, should also be well grounded in elementary psychology, bot-

