

TECH NEWS

VOL. XII

WORCESTER, MASS., JUNE 10, 1921

NO. 32



71 AT GRADUATION AND AT THIRTY-FIFTH ANNIVERSARY REUNION

'71 CELEBRATES 50th ANNIVERSARY

**Many Changes in Institute Since Their
Graduation—All Living at 35th
Anniversary**

Each commencement, as the tradition goes, the students about to graduate from college look out upon the future and feel that the world is waiting for him. An old timer, ripe with years of experience, remarks that it is—with an axe.

Certainly the world presented no easy berths for the youngsters that were graduated in the class of '71, the first class at Worcester Tech, just fifty years ago this month. The country then was passing through the travail of depression and readjustment after the Civil War. Two years before, Sept. 24, 1869, a change in the price of gold caused a serious crisis. Another Black Friday similar to this came four years later, Sept. 19, 1873, when the leading American bank failed, causing the panic of 1873.

This was the situation of the country when Tech opened her doors and turned her first class into the world. Fresh from a brand new college that had hardly established its curriculum, had hardly decided whether it was to be a success or a failure, the members of this class of '71 tucked their sheepskins under their arms and wrote the letters B. S. after their names in large letters to give themselves encouragement and started down the Hill.

After half a century of strange experiences wherein there has been intermingled sorrow and joy, discouragement and reward, those classmen will be here this week. They will be the guests of honor at commencement this week.

Not only with these guests of honor but also with other noted men of the country the Tech reunion this year is surely going to be a golden jubilee. The class of '71 when it was graduated numbered 17. There are twelve members living, probably a greater proportion than any succeeding class. Fifty years ago there wasn't an extensive group of buildings on Tech Hill. Boynton hall, with its granite walls, loomed up to overlook the city, and beyond it was what is now the middle section of the Washburn shops. There were only two houses on Boynton street then, one of which was occupied by Prof. Charles O. Thompson, the first president of the Institute and the instructor in chemistry.

The staff of the Institute was small and the courses laid out were crude,

GRADUATION EXERCISES HELD IN GYM

Two Governors Present

DEGREES CONFERRED BY PRESIDENT HOLLIS

This morning, the graduation exercises were held in the gymnasium. The Seniors in their caps and gowns were seated in a block in the front of the hall, while their parents and friends filled up the remainder.

The exercises were opened by an in-

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ATHLETIC TEAMS HAVE GOOD YEAR

Great Improvement Shown in All
Branches of Sport

TWO CHAMPIONSHIPS WON

We take no little pride in reviewing the past season's athletics at Tech, for in no preceding year have we equalled the record set during the season of 1920-1921. It is a great advertisement for Tech when the general public finds out that we can turn out something

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COMMENCEMENT WEEK BEING CELEBRATED

Usual Program of Events is Observed

ALUMNI GAMES SATURDAY

The social life of the Graduating Class started in with a roar when the class, accompanied by its "friends," formed a theatre party at the Worcester Theatre, Tuesday evening.

Wednesday night at 7:30 o'clock the entire class met in the Winter Gardens

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TECH NEWS

Published every Tuesday of the School Year by

The Tech News Association of
Worcester Polytechnic Institute
TERMS

Subscription per year \$2.00
Single Copies .07

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All checks made to the Business Manager.
Entered as second class matter, September 21, 1910,
at the post-office in Worcester, Mass., under the Act
of March 3, 1879.

THE HEFFERNAN PRESS

Spencer, Mass.

JUNE 10, 1921

COMMENCEMENT WEEK, 1921

Reams might be written about the significance of this week to the Worcester Polytechnic Institute, and yet much be left unsaid. At once an observance of the fiftieth anniversary of the graduation of the first class, and a celebration of the attainment of the goal set in the Endowment Fund Drive, the Jubilee is an occasion of far greater importance than any event since the founding of the Institute.

The half century which has passed since the graduation of 1871 has witnessed many changes in the fortunes of this school. The Worcester County Free Institute of Industrial Science has taken the more euphonious name of Worcester Polytechnic Institute. Since the day of that first class, Tech has undergone a metamorphosis, to all outward appearances, and new buildings, a beautiful athletic field, a larger faculty, an increased enrollment, all contribute to the making of the school which today's outgoing class will ever hold in beloved esteem. Yet inwardly, our Alma Mater remains the same; the high standards which were set for the first class we believe have not been lowered for the fiftieth. That these same high standards, which have brought Tech fame in the past, may be always maintained should be our foremost wish.

Aside from the observance of the fiftieth anniversary, however, the completion of the Endowment Fund Drive

makes this occasion one of transcendent importance. It marks a new era in Tech life, for it means that the future of W. P. I. is assured, no matter how uncertain the past may have been. To Professor Butterfield and his tireless helpers, to the alumni and the friends of the Institute who have placed her forever beyond the fear of monetary difficulties, the school owes an eternal debt of gratitude. May they be repaid by the knowledge that they have made possible a better Worcester Tech.

COMMENCEMENT WEEK BEING CELEBRATED

(Continued from Page 1, Col. 3.)

of the Hotel Warren for a last bit of combined good fellowship. I. R. Smith, permanent class president, presided as toastmaster. The speakers representing the different courses were: W. W. Campbell, C. M. Lyman, P. K. Davis, and R. R. Jenness. The Class Prophecy was given by F. K. Brown, while the Class Song and other tunes of Tech were led by E. J. Fisher.

Thursday afternoon the Class Day Exercises were held on the lawn in front of Boynton Hall. The Address of Welcome was given by I. R. Smith, the Class Day Oration by G. Bijur, the Class History by D. T. McCarthy, and the Ivy Oration by R. E. Chapman. After the Ivy Oration the Class adjourned to the Gym, where the ivy was laid to rest with appropriate music. President and Mrs. Hollis held open house for the Alumni, the Faculty, Graduating Class and Friends immediately after the exercises.

Outside of the Graduating Exercises the great event of the week so far was the Senior Prom, held in the Gym last evening. All former members of the Graduating Class were invited to participate in the affair and joy ran high, fostered by the fine music of the Bateson Orchestra. The Prom was attended by about one hundred and forty couples who danced to the honor of Tech's Class of '21.

The program of Sports and Stunts on Alumni Field for this afternoon should bring back to the Alumni the old days when each was running off that excess of pent up energy. Let's get together and make this a real Inter-class Track Meet. The program for the afternoon is as follows:

1. Special
2. Sack Race
3. Three-legged Race
4. Obstacle Race
5. Special
6. 440 yd. Handicap. (Handicap will be determined on number of years out of the Institute.)
7. Shot put—Specialty
8. Medley Relay—Handicap—by Classes.

'71 CELEBRATES 50TH ANNIVERSARY

(Continued from Page 1, Col. 4.)

since the school was in the nature of an experiment. George I. Alden was in charge of mechanical engineering, and Milton P. Higgins was superintendent of the Washburn Shops. George E.

Gladwin was professor of drawing and Prof. Sinclair was instructor in higher mathematics and civil engineering. Perhaps the only romance Tech produced, aside from the romance of business, was when Miss Fletcher, instructor in languages, became Mrs. Sinclair.

The idea on which Tech was founded was to train the minds and broaden the mentality of the youths who registered as its students. Having no traditions to live up to, having very little school spirit as has been developed since that time, the class of 1871 was a sober-minded set of fellows, who had, of course, the natural good nature of youth, but who had gone to the school with the idea of learning something worth while, and since they were busy finding themselves, they had little incentive for what have since become the time-honored pranks of college life.

Prof. Thompson is remembered as a man of keen insight and agile mind and he was universally liked by the boys. Himself an instructor of several classes, he became well acquainted with the students, and some of the courses were personally conducted affairs.

When the old grads gather today there will be many of these reminiscences to discuss. They will remember that Elmer P. Howe, who later was a staunch supporter of Tech, went by the name of Mucksie. They may call Edward K. Hill by his old nickname, Montaigne, which the classmen discovered under Miss Fletcher's instruction was the French translation. They will remember that Tolly formed a partnership with him under the name of Hill & Tolman and that an engineering office the men opened in Worcester in 1875 continued for fifteen years.

Out of that French class directed by Miss Fletcher was evolved another name. Edwin H. Whitney of Attleboro, who always makes it a point to attend alumni reunions, was named Mahmoud. There was also Bate Bateman and Thompie Thompson. Position and dignity have fallen on many of these men, but dignity will be laid aside at the reunion.

Half a century has found William A. Nelson a special engineer for a great concern in Bridgeport. In those days of '71 they knew him as Old Hundred—Slow but Sure. Bob Holgate answers no more reunion calls but in those days of long ago they knew him as the Noblest Roman of Them All. Arthur Marble they knew as Ajax.

So uncertain were the courses of that experimental stage in Tech's history that students were likely to be shifted inadvertently unless they closely watched their steps. Chemists might become mechanical engineers and civil engineers might find themselves on the road to fame as architects. Three fellows who elected to study mechanics wandered into the chemistry laboratory and became so interested in its workings they held clandestine study periods all by themselves. Discovered by Prof. Thompson they were rather encouraged than censured and because of the limited courses that prevailed in the regular routine they found time to keep up the work. Engrossed in

(Continued on Next Page.)

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(Continued from Preceding Page.)

the uncanny action of liquids and crystals the boys often forgot their other studies and went into class with nothing more than ten minutes of preparation. Given six months more in the laboratory, one of them explained the other day, and they would have been able to have graduated in the chemistry course as well.

The chemistry laboratory was then at the north end of Boynton hall and was well appointed for those days. In fact, it has been said, the institute was richer in chemistry development than in any other line.

The workmen had hardly finished Boynton hall when the school opened and the class to graduate in 1871 moved in. For those days the building was well equipped and steam heat was furnished from the shops. The shops were also well equipped for the time, with a good assortment of machines and machine tools—so far as machinery had developed.

Students living at some distance had to get up early to arrive at school on time. Nearly all the boys of that class were from Worcester county. They came from well-to-do families, and although the economic condition of the country was unstable, there were few luxuries called for in their school life above the necessities demanded in getting their education.

A host of these incidents will be recalled when the old grads get together at commencement. The bachelor of science degree was conferred on all graduates. After that they proceeded to face the world and fortune. They were handicapped by business depression. There were disappointments awaiting them. But that was all a half century ago. Soon they will return to tell how they went forth. It will be a grand reunion for the 50-year men; a wonderful golden anniversary.

The class of '71 is long lived and is distinguished for age. It was not until 1910 that the first break came. Edwin F. Tolman was the first to succumb. It seems remarkable that among the seventeen members of the first class that graduated a half century ago only five have died. The registry of the class is as follows:

Henry P. Armsby, Ph. D., Yale university, 1879, L.L.D., University of Wisconsin, 1904. Director, Institute of Animal Nutrition, Pennsylvania State College.

Everett J. Bardwell, building estimator, Worcester.

Frederick W. Bateman, civil engineer, partner, Parker, Bateman & Chase, Still River.

William R. Billings, curator, Grolier club, New York city.

Walter L. Chaloner, artist, Merrimac. John D. Curtis, treasurer, Richardson Manufacturing Co., Worcester.

F. Walter Hamilton, died 1910.
Edward K. Hill, retired, Worcester.
Robert E. Holgate, died 1913.
Elmer P. Howe, died 1918.
Samuel S. Jennison, died 1916.

William A. Nelson, special engineering, Remington Arms Union Metallic Cartridge Co., Bridgeport.

“Where do we go from here?”

“ALL through my last year”, said the old grad, “I listened to a lot of advice on what to do when I got out into the wide, wide world—how to fight the battle of life, and all that sort of thing.

“That dim, shadowy world beyond Commencement appeared so unfriendly that I hardly had the courage to face it. I seemed about to step off into space, with a foreboding sense of doom.

“Then came some surprises. To begin with, my boss did not wear horns. He laid down no sterner rules than I had been following in electrical lab or in football practice—an honest day’s work, and when occasion demanded, an honest night’s work too.

“Well, to my delight I kept discovering that this was no new planet I had landed on. Nothing but the same old world as at college, only more of it. The problems were harder, the issues larger. But the astonishing and comforting thing was that the basic principles involved were the same.

“If you have learned to analyze your problems down to their fundamental principles and to apply those principles to similar and bigger problems—good for you! You will find that ability a comfortable bridge between college and industrial life.

“That is the most important lesson for any man to learn, in college or out of it, and to practice all through the day’s work.

“So if your first job should be to rig up a generator in a tool-shed and wire the outbuildings, depend upon it that that job can help to make your thinking a little quicker and a little surer when you are planning your 500-mile interconnection system ten years from now.”

* * *

The electrical industry needs men who can see far and think straight.

Published in the interest of Electrical Development by an Institution that will be helped by whatever helps the Industry.

Western Electric Company

In this Company, as in any other, the men who start by being faithful in little things are qualifying for larger responsibilities as executives later on.

Herbert Nichols, author and lecturer, Chestnut Hill.

George A. Thompson, statistician, Lehigh Valley railroad, New York City.

Edward F. Tolman, died 1910.

Edwin H. Whitney, farmer, Attleboro.

Fank O. Whitney, chief engineer, Street Laying-out department, Bocton.

THEY COULDN'T DUCK IT

There once was a man in Pawtucket,
Who kept all his cash in a bucket;
But his daughter named Nan
Ran away with a man,
And as to the bucket Nantucket.

But he followed the pair to Nantucket,
The man and the girl with the bucket;

He said to the man,
“You’re welcome to Nan,”
And as to the bucket Pawtucket.

—Voodoo.

Father: “How is it that you use so little gasoline when you go riding, Mabel?”

Son: “Isn’t love a wonderful thing?”
—Widow.

**MUSICAL CLUBS CLOSE
SUCCESSFUL SEASON**

Treasury Shows Increase — Gold Charms Awarded

The record of the musical association during the past year is something that every member of that organization should be proud of. Last year the association cleared up debts aggregating \$170.00 and then had some \$100.00 left to start the new year. This year the club paid all their bills and then had approximately \$200.00 on hand. The Executive Committee followed the same plan that they worked out during the previous year and allowed the clubs to play or sing at concerts only when the expenses and a reasonable guarantee had been assured. This system works exceedingly well and will no doubt put the Association on its feet in such a way a few years from now that vacation trips of a week or two duration may be arranged.

Immediately upon the opening of school last fall a dance was planned. This dance was as great a success as the first dance of the previous season and rendered enough money so that any immediate expenses could be taken care of without touching the balance from last year. The credit for this is due to the chairman of the committee, Myron D. Chase. He has always been a hard worker for the association and his untiring efforts were what put the affair across so well.

The concerts were fairly well scattered so that the men did not have time to lose interest in the work. Starting the middle of November concerts were scheduled at Southbridge, Mass.; Princeton, Mass.; West Boylston; Holden, Mass.; United Commercial Travellers of America; Adams Square Baptist Church; Pilgrim Congregational Church, and Quinsigamond Lodge, No. 43, of Odd Fellows. It would have been possible to schedule other concerts if work on the Hill had not interfered. It may be possible even next year to schedule a vacation trip and it is to be hoped that the new general manager will work toward this end.

Too much credit cannot be given "Eddie" Scholz, General Manager of the association during the past year. As usual the prospects were none too bright when the season opened and some of the men were a little discontented. However, Eddie came through in great style and now even the worst grumblers are glad that Eddie was at the helm.

As a token of appreciation of the work the members of the association had done during the year, the Executive committee again decided to award charms to those who had been interested workers. A slight change was made, however. The charms are to be given to those who are recommended for the first time and those men who have been recommended before are to receive a pin which is of somewhat greater value. This will instill a desire, it is hoped, into the men to keep working hard for the association—not only one year—but during their entire



BACKING UP THE ALUMNI-FACULTY BASEBALL GAME

career at Tech. Great credit should be given to the soloists who have taken part in the concerts: Will C. Harcus, '21; Howard Trombley, '23; and John Wenzel, Jr., '23. The leaders of the various clubs also deserve mention: Glee Club, P. H. White, '22; Mandolin Club, A. W. Barr, '23; and Orchestra, E. L. Sholz, '22.

At the annual meeting the second Monday in May it was voted that the band—which is a newly formed organization—be taken in and made a part of the musical association. The band has been a very excellent feature here this past year. Many a dull moment was made interesting between the halves of the basketball games by its lively music. This will be a worthy addition to the association.

The Executive Committee this year was made up of the usual five members, the four officers of the association and the general manager. They were: Howard E. Drake, President; Will C. Harcus, Vice-President; Myron D. Chase, Secretary; P. H. White, Treasurer; and E. L. Sholz, General Manager.

"Yes, I was a freshman, too. Some of the happiest years of my life I spent as a freshman."—Squib.

He: "Have you any class now, Ma-bel?"

Co-ed: "Look me over."—Octopus.

INTERCOLLEGIATE NEWS

Plans are now being made at M. I. T. for the organization of a glee club which will sing only classical music, light opera and similar types of compositions. This club becomes the fourth club of the combined musical clubs at the Boston institution.

Statistics recently compiled show that Princeton has awarded more athletic insignia than any other college. One hundred twenty-three insignia excluding class numerals have been awarded, or approximately 12.3 per cent. of the three upper classmen have received either Varsity or minor sport insignia.

The University of Michigan is to have a Sunday college paper. This paper will contain articles written by the students and faculty. It is the only paper of its kind published.

An honorary society called the Green Key has recently been organized at Dartmouth. Service to Dartmouth is its purpose, members being elected from the Sophomore class. The organization is non-secret and initiations will take the form of a public ceremony.

The girl: "Did I ever show you where I was tattooed?"

The Boy: "No."

The Girl: "Well, we can drive around that way."—The Brown Jug.

**MUCH INTEREST SHOWN
IN INTERFRATERNITY
BASEBALL SERIES**

Irregular Playing Marks Season

The Inter-Fraternity Baseball series this year was a very marked success. Undoubtedly a big factor in the success was the good spirit which was present at every game, every one seemed to be playing the game for the fun in it without any hard feelings on the part of the loser. The series started in the middle of May and after the first two or three games it was impossible to pick the team which would be the winner. Very soon after the series started three teams tied for first place. One day one team would take the lead only to have another step up the next night and make a tie again. The last week of the series started with three teams, P. S. K., A. T. O. and S. A. E., left in such a position that any one could win the series. However, the first game of the week set down S. A. E. and the next game put A. T. O. in second place, leaving P. S. K. at the top if they could win their last game. This they promptly proceeded to do, making themselves leaders of the league.

The series was rather a mixed affair; that is no team seemed to be able to win consistently. For example: L. C. A. beat S. A. E. and S. A. E. beat A. T. O. and then A. T. O. turned around and beat L. C. A. Nevertheless the series was interesting and it is to be hoped that as successful an one may be run off next spring. The final standing of the teams is given below:

Team	Won	Lost	P.C.
P. S. K.	5	1	.826
L. C. A.	4	2	.666
A. T. O.	4	2	.666
D. T.	3	3	.500
S. A. E.	3	3	.500
T. C.	2	4	.333
P. G. D.	1	5	.166

ANNUAL A. S. M. E. ELECTION OF OFFICERS

The student branch of the A. S. M. E. held its election of officers for the coming year on Friday, May 20, 1921, in the M. E. lecture room. At this same meeting some of the senior mechanics gave talks on their thesis work which were both instructive and interesting. The officers elected for the following year are as follows:

President—H. A. Johnson.
Vice President—H. Putnam.
Secretary—O. H. Dodkin.
Treasurer—J. Carter.

**FACULTY BASEBALL LINEUP
FOR ALUMNI-FACULTY
GAME SATURDAY**

Coombs c	Carpenter p
French 1b	Knight 2b
Zinn ss	Roys 3b
Jennings lf	Duff cf
Allen rf	
Professor Libby Pinch Hitter— Mascot—Coach—and also score keeper unofficial.	

REV. KNAPP DELIVERS BACCALAUREATE SERMON

Service Follows Reception at President's House

The Baccalaureate service which for years has been held on Sunday afternoon, at the opening of the Commencement week, took place this year on Sunday, June 5, in Central church, Rev. Shepherd Knapp, pastor of the church, and member of the Institute corporation, delivered the address.

The Senior Class and the Faculty of the Institute met at the home of Pres. and Mrs. Hollis for an informal reception at 3:30 o'clock, and at 4:00 proceeded in academic procession to the Baccalaureate services. They were led by the head Junior Marshal, and the other marshals served as ushers.

Dr. Knapp began by referring to the riddle propounded by the Sphinx, and then turned to the more difficult query of Job, "What is man?" This question, he said, is one which demands an answer at each important turning point in life, and hinted that this was the underlying reason for the custom of the baccalaureate sermon at each college commencement season. It is a question, he said, whose very difficulty lies in its multiplicity of answers, and he announced his sermon as the answer of religion to Job's question.

Dr. Knapp first outlined the reply of the schoolboy, to whom man's estate seems the biggest thing in the world then the collegian's response, the youth in the light of whose scientific studies man is viewed as a complex product of the ages, and of insignificant importance in the world as a whole; then of the business man's answer: that man is a storage battery of energy for performing the world's work.

Dr. Knapp agreed that man is all three of these, but is something more. The lacking element is what would be supplied by religion. A strong, vital Christian faith would round out these views: help the schoolboy in his heroic ideals; prevent the collegian from disillusionment and guide him to his largest possibilities; and show the business man how to direct human energies toward the purposes of the Creator. In swift summary the speaker defined religion as that which teaches to see man through the eye of God; and addressing his final words directly to the Senior class, declared that their technical education had fitted them for specific tasks, but that it was the aim of religion to prepare for the highest duties of man.

DON'T READ THIS

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P. S. SESSIONS, CHAIRMAN
COMMENCEMENT COMMITTEE



I. R. SMITH, PERMANENT CLASS
PRESIDENT

(Continued from Page 1, Col. 2.)

ATHLETIC TEAMS HAVE GOOD YEAR

besides intellectual demons. Tennis has been added to the regular Varsity sports and our team has come through in great style. The Athletic Association has enough money in their coffers to award sweaters to the Varsity letter men in Basketball, Football, and Track.

Never strong in Football Tech surpassed herself last fall by winning two games and tying another. But this by no means tells the whole story. Laying aside all partisan spirit we can say that, with a little of the proverbial luck, we should have won at least two games which we lost by the close margin of one goal. As with all of Tech's athletics scholarship made great inroads into the team, rendering the lineup at any time during the year uncertain. Tech's football career is on the upward path, due in large part, to the able coaching of Blake and Lancaster.

In Basketball Tech upheld her reputation of the previous years and won the New England championship of independent colleges, suffering only one defeat within New England, which was with a college in the intercollegiate league, namely, Dartmouth. Harvard, a new rival in the basketball field, went down to overwhelming defeat twice and Clark suffered greatly at the hands of our five. Stevens Tech, our New York rival, beat us in an overtime game, and Crescent A. C., a team composed of former college stars, had a hard run to win by three points. All the other games were wins, often by Herculean efforts after defeat seemed certain. Tech has a good chance to repeat her performance next year with Capt. Berry, Pickwick, and White to build the team around.

Tech's Track Team came through as good as ever, showing up near the top in most of their meets. The team lost their best cross-country man in Capt. Trombley, but in spite of this placed seventh in the meet of the Eastern Intercollegiate Athletic Association, placing above Trinity and Stevens Tech. It was in this meet that Lyman, our pole vaulter, broke the Eastern Intercollegiate record by nine and one-half inches. Boston University, Trinity and

Clark took decisive defeats from our men. A lot of new material showed up this year so that next year should find Tech placing higher than ever under the leadership of Capt. Lundgren.

In rifle Tech all but won the New England championship, being beaten only by Norwich, a military school. The team beat Harvard, Yale, and M. I. T., and in the N. R. A. Intercollegiate Tournament Tech placed fifth with twenty-four schools finishing. For winning the State championship Tech's Rifle Team was awarded ten medals besides three men on the team getting ninety per cent. medals: Capt. Cushman, Ellsworth and Smith.

The weather was decidedly against our baseball team, cheating us out of many contests which we might have won. However, the team won more than half of the games played, beating Middlebury, C. A. C., Clark, and R. I. State.

The tennis team also came through better than it ever has before, winning all college games except those with M. I. T. and Clark and tying with Springfield.

INTERCOLLEGIATE TENNIS AT PHILADELPHIA

Many College Teams Enter

An interesting event to begin June 27 is the annual Intercollegiate Lawn Tennis Championship Match. This is to be held at the Merion Cricket Club in Philadelphia and colleges from all over the country will be represented, teams from the west having already started. In 1920 there were forty-one players entered, representing such colleges as California, Cornell, Harvard, New York University, Princeton, and Yale. Entry is limited to members of the Intercollegiate Lawn Tennis Association, but if any college is not a member it is invited to join. The entry fee is five dollars, which covers all events. A full team consists of four singles and two doubles but it is not necessary for any college to send more than one representative.

"May I steal a kiss sub rosa?"
"Don't you think it would be better sub nosa?"—Purple Cow.

DR. HULL ADDRESSES COMMENCEMENT MEETING OF SIGMA XI

Subject: Electrons at Work

The Monday evening address of Commencement week this year was given by Dr. Albert W. Hull of the General Electric Co. of Schenectady, N. Y. The theme of the lecture was "Electrons at Work." The address was given in the Electrical Engineering Building lecture hall before a large crowd. The meeting was open to all and gave those interested in the remarkable application of vacuum tubes an opportunity to hear them described by one who has been a leader in this pioneer work. For several years Dr. Hull was a professor in the Physics Department of the Institute and since joining the Research Laboratory of the General Electric Co., he has risen to the very front rank of research workers in Electricity. He is a speaker of exceptional clearness, energy, and enthusiasm. No one who was present was sorry to have been there.

EVENTS OF THE AFTERNOON AND TOMORROW

2:00 p. m. Sports and stunts on Alumni Field.

1. Special
2. Sack Race
3. Three-Legged Race
4. Obstacle Race
5. Special

6. 440 yard Handicap. (Handicap will be determined on number of years out of the Institute.)

7. Shot Put—Specialty.
8. Medley Race—Handicap—by Classes

Throughout the afternoon, a real midway will be operated with side shows, barkers, etc., showing the inventions that have made Tech Men famous!

6:00 p. m. Procession forms at Gymnasium for march to Mechanics Hall. Each group to be in costume or colors. Bands will lead the procession.

7:00 p. m. Banquet at Mechanics Hall. Orchestra, Organ, Speaking, Special program. Gov. Everett J. Lake of Connecticut, Toastmaster.

Saturday, June 11

10:00 a. m. Sophomore Exhibition, Alumni Field.
Senior Stunts.
Faculty Alumni Baseball Game.

12:00 m. Lunch at your convenience.

3:00 p. m. Water Stunts at Norton Club Club.

Program

- Canoe Tilts.
- Swimming Races.
- Tub Races.
- Special Boat Race (Pat Gillette, Charlie Allen, Jack Spence and Butt).
- Eight Oared Race—Two Norton Crews.

She (tenderly): "And are mine the only lips you have kissed?"

He: "Yes, and they are the sweetest of all."—Jester.

THE OSWEGATCHIE SUMMER SCHOOL

Croghan, N. Y., in the Adirondacks.

All of the usual subjects required for college entrance, except laboratory subjects, will be taught. An excellent opportunity to prepare for the make up examination in the fall.

For further particulars apply to Prof. P. R. Carpenter, Director.

12 Boynton St., Worcester, Mass.

(Continued from Page 1, Col. 1.)

GRADUATION EXERCISES HELD IN GYM

vocation by Reverend Shepherd Knapp. Hon. Everett J. Lake of the class of 1890 and at present governor of Connecticut, was introduced as the commencement speaker. He chose for his subject "Relative Values in Education." His address was followed by a brief talk by Governor Hartness of Vermont.

Following these addresses there was the conferring of degrees by President Hollis. These men received their degrees:

Bachelor of Science in mechanical engineering, Clarence Boyden Allen of Worcester, Carl Eugene Anderson of Falmouth, George Bijur of New York, Wendell Whitcomb Campbell of Hardwick, Vt., George Peck Condit of Waterville, Ct., Robert Moseley Eldred, Wilmore Custer Harcus of Worcester, Carroll Allen Huntington of Hardwick, Vt., Gustave Verner Johnson, Attleboro, Daniel Timothy McCarthy of Springfield, Stanley Nutting McCaslin of Hopedale, William Ladd Martin of Chelsea, Robert William Perry of Leominster, Anal Woodworth Russell of Worcester, Paul Stanley Sessions of Cleveland, Ohio, Foster Ezekiel Sturtevant of Concord, N. H., Fred Weitezen.

Bachelor in Science and civil engineering, Philip Kees Davis of Ansonia, Ct., William Nourse Dudley of Providence, Walter George Fielder of Worcester, Edward Rosenblatt of Saxonville, William Augustus Schuerman of Leominster.

Bachelor of Science in chemistry, Cornelius Anthony Callahan of Winchendon, Howard Sellow Carpenter of Waterbury, Ct., Harold Benjamin Grange of Easthampton, James Henry Hill of New York, Cyril Israel of Millville, Charles Martin Lyman, New Haven, Ct., Edmund Burton Saunders of Amherst, Francis Winslow Towle of Fall River, Foster Cook Whidden of Worcester, John Warren Williams of Hartford, and Earl Holden Winslow of Westboro.

Bachelor of Science in electrical engineering: Raymond John Bagley of Merrimac, Harold Stephen Black of Worcester, Carleton Francis Bolles of Bellows Falls, Vt., Frank Kinney Brown of Leicester, Edward Irving Burleigh of Tavares, Fla., Myron Dewey Chace of Worcester, Robert Edwin Chapman of Oakdale, James Otis Dudley of Northbridge, Robert Graham Ferguson of Chicopee, Orville Bourdon French of Manchester, N. H., Carleton Thomas Gilbert of Thornton, Ct., Myron Charles

(Continued on next page.)

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(Continued from Preceding Page.)

GRADUATION EXERCISES HELD IN GYM

Goddard of Fairhaven, Milton Werner Graff of Norwich, Ct., Charles Cleon Hutchins of Worcester, Roger Ripley Jenness of Chicopee, Einar Daniel Johnson of Manchester, N. H., Raymond Andrew Lane of Worcester, Richard Spencer Leonard of Belows Falls, Vt., Lyle Jewell Morse of Bradford, Richard Pascall Penfield of Portland, Ct., Ricardo Gonzalves Pereira of Parana, Brazil, Kenneth Randolph Perry of Worcester, Carl Eric Skroder of Winchendon, Irving Rumrill Smith of New Brighton, N. Y.; Harold Birnie Whitmore of Holyoke, Irving Martin Will of Herkimer, N. Y., Paul Dodge Woodbury of Charlton, and Russell Bunce Henchman, Jr., of East Jaffrey, N. H.

Hon. James Logan then awarded the prizes to the members of the graduating class who finished the prescribed course with the greatest faithfulness and excellence. These prizes are derived from the income from a fund of ten thousand dollars which was given to the Institute in 1871 by Stephen Salisbury, Sr., and amount to \$75 each.

Those honored were: C. B. Allen, M. E. Dept.; W. A. Schuerman, C. E. Dept.; E. H. Winslow, Chem. Dept.; and H. S. Black, R. R. Jenness and H. B. Whitmore, E. E. Dept.

The exercises closed with benediction by the Rev. Shepherd Knapp.

F. M. FEIKER, '04 APPOINTED ASSISTANT TO SECRETARY OF COMMERCE

To Aid Hoover in Elimination of Waste

F. M. Feiker, '04, has been appointed assistant to the Secretary of Commerce.

Briefly, Mr. Hoover has divided the bureaus of the Department of Commerce into two parts. Assistant Secretary Huston will supervise the Bureaus relating to navigation and fisheries, while Mr. Hoover will give his personal attention to the Bureaus of Foreign and Domestic Commerce, Standards and Census. Mr. Feiker will directly assist Mr. Hoover in the expansion of these bureaus as aids to business.

Mr. Feiker has been aiding Mr. Hoover in his plan for the elimination of waste in industry. Mr. Feiker graduated from Tech in 1904, and, except for a year or two in special research work on high tension transmission, all of his time since has been spent in technical and business journalism. He was for several years chairman of the editorial board of the A. W. Shaw publications of Chicago. In 1915 he became editor of the "Electrical World" and in 1919 he was appointed editorial director of all the McGraw-Hill publications. Mr. Feiker has served on a number of committees of the National Electric Light Ass'n and in 1920 was president of the N. Y. Business Publishers' Ass'n.

NEW BASKETBALL LEAGUE PROPOSED

Plans Discussed at Meeting of Ass'n of New England Colleges—Tech to be in Western Section

At a meeting of the Association of New England Colleges for Conference on Athletics held several weeks ago, the following officers for the coming year were elected: President, Dean Lewis of M. A. C.; Vice-President, Professor Whorsley of the N. H. State; Secretary and Treasurer, Professor Carpenter of W. P. I.

After hearing reports of the various committees, plans for the coming year were discussed. It was decided to form Intercollegiate Associations in swimming, boxing, wrestling, and basketball, among the New England Colleges. Accordingly a constitution and by-laws were drawn up. Professor Carpenter was chosen chairman of the basketball league.

The plans for the basketball league were discussed and are as follows: First, that the colleges in New England divide into an eastern and western section, and that each team play one game with every other team in its section. The winners from each section will meet to decide the championship at a place and at a time decided upon by the executive. The second plan, which has met with considerable favor in the West is the Conference System, by which each team plays at least 60 per cent. of the other teams in the league. Opinion seemed to favor the former scheme.

A part of the colleges have consented to the former scheme and are divided up as follows:

Western Section—M. A. C., Springfield, Amherst, Vermont, Norwich, Middlebury, W. P. I., Conn. Aggies.

Eastern Section—Bates, Boston College, N. H. State, Brown, Tufts, M. I. T.

Several of the colleges have not been heard from yet, but it is expected that the list will be complete within another week. Further plans will be developed at a meeting to be held within the next two weeks.

"A college education teaches you so many things. You couldn't begin to mention them all."

"Not in polite society."—Juggler.

ALUMNI

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SIGMA XI HONORS BY ANNUAL INITIATION

Prof. Goddard Addresses Meeting

The Worcester Polytechnic Institute Chapter of the Society of Sigma Xi initiated one professor, two graduate students and eleven men from the class of 1921, Monday evening, May 16, in the library of the Electrical Engineering Building. The men initiated were: Professor Herbert Foster Taylor, B. S., W. P. I., 1912, Assistant Professor of Engineering; William Vyne Sessions, B. S., W. P. I., 1917, Worcester, and Frederic Raymond Butler, B. S., W. P. I., 1920, Worcester, both men being graduate students in Chemistry; Clarence Boyden Allen, Worcester, Mechanical Engineering; William Augustus Schuerman, Leominster, Civil Engineering; Cornelius Anthony Callahan, Winchendon, Howard Sellw Carpenter, Waterbury, Ct.; Foster Cook Whidden, Worcester, and John Warren Williams, Hartford, Ct.; Earl Holden Winslow, Westboro, Chemistry; Harold Stephen Black, Worcester; Robert Edwin Chapman, Oakdale; Roger Ripley Jenness, Chicopee, Irving Rumrill Smith, New Brighton, N. Y., and Harold Birnie Whitmore, Holyoke, Electrical Engineering.


After the initiation ceremonies were over Dr. Robert H. Goddard, Professor of Physics at Clark University, gave a very interesting address on "High Altitude Researches," in which he emphasized the possibility of applying the rocket method as a means of overcoming the present limitations of the United States Weather Bureau. The lecture was well illustrated by slides.

WHO'S WHO AT TECH.

President, 1921	I. R. Smith	P-50928
President, 1922	C. H. Needham	P-50928
President, 1923	J. A. Whelpley	P-1564
President, 1924	Wm. Welch	P-50928
Bus. Manager, Tech Show	E. B. Coghlin	P-50928
Manager Musical Association	E. L. Sholz	P-1050
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Basketball Manager	L. S. Potter	P-52278
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Tennis Manager	R. E. Chapman	P-57572
TECH NEWS—Editorial	R. A. Reed	P-57572
TECH NEWS—Business	H. P. Putnam	P-50928
1921 Aftermath—Editorial	R. G. Ferguson	P-52278
1921 Aftermath—Business	G. P. Condit	P-687
General Secretary Y. M. C. A.	W. B. Anthony	P-687



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**RIFLE ASSOCIATION
ELECTS OFFICERS**

Six Men Eligible For "W"

On Friday, May 20th, the annual meeting of the Rifle Association for election of officers was held. The secretary's report was read and the necessity of a manager for the Association discussed. It was considered advisable that the secretary should add to his duties those of the manager whose work has formerly been carried on by the captain. The following are the officers for the year 1921-1922:

President W. A. Ellsworth, '22
Sec. and Manager..... R. C. Jordan, '24
Treasurer E. P. Williams, '22
Captain O. H. Dodkin, '23

The following men were recommended to the Athletic Council as eligible to the Rifle "W": I. R. Smith, '21; R. E. Chapman, '21; Capt. R. W. Cushman, '22; W. A. Ellsworth, '22; O. H. Dodkin, '23, and R. C. Jordan, '24.

**INGRAHAM CONDUCTS
CLASS IN AUTOMOBILES**

In Connection With University Extension

Mr. A. K. Ingraham of the Mechanical Engineering Department has been conducting a class in "Gasoline Automobiles" at the Classical High School on Thursday night of each week. The course consists of ten lessons, eight of which have already been given, and is offered by the Division of University Extension of the Massachusetts Department of Education. "Gasoline Automobiles" by Moyer, is used as a text book. Each member of the class submits answers to from five to ten questions each week, and the persons qualifying will receive certificates. Of the 124 in the class, twenty-nine per cent. are women, and the average age is 38.3. Several are over 60 years of age, and one is 81. Mr. H. W. Dows is class secretary.

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**What Makes the Firefly
Glow?**



YOU can hold a firefly in your hand; you can boil water with an electric lamp. Nature long ago evolved the "cold light." The firefly, according to Ives and Coblenz, radiates ninety-six percent light and only four percent heat. Man's best lamp radiates more than ninety percent heat.

An English physicist once said that if we knew the firefly's secret, a boy turning a crank could light up a whole street. Great as is the advance in lighting that has been made through research within the last twenty years, man wastes far too much energy in obtaining light.

This problem of the "cold light" cannot be solved merely by trying to improve existing power-generating machinery and existing lamps. We should still be burning candles if chemists and physicists had confined their researches to the improvement of materials and methods for making candles.

For these reasons, the Research Laboratories of the General Electric Company are not limited in the scope of their investigations. Research consists in framing questions of the right kind and in finding the answers, no matter where they may lead.

What makes the firefly glow? How does a firefly's light differ in color from that of an electric arc, and why? The answers to such questions may or may not be of practical value, but of this we may be sure—it is by dovetailing the results of "theoretical" investigations along many widely separated lines that we arrive at most of our modern "practical" discoveries.

What will be the light of the future? Will it be like that of the firefly or like that of the dial on a luminous watch? Will it be produced in a lamp at present undreamed of, or will it come from something resembling our present incandescent lamp? The answers to these questions will depend much more upon the results of research in pure science than upon strictly commercial research.

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