

Men must be at liberty to say in print whatever they have in mind to say, provided it wrongs no one.—Charles A. Dana.

# TECH NEWS



A hearty welcome to all visitors at our annual At-Home-Day!—Tech News Staff.

VOL. XXVII

WORCESTER, MASS., APRIL 21, 1936

NO. 22

## Carl E. Wahlstrom Speaks On "Lincoln" at Annual Banquet Sponsored By Tech Council

Short Talks by Pres. Earle, Prof. Herbert Taylor and Mr. Arthur M. Tarbox

CLINT LEECH PRESIDES

Sense of Fellowship Reigns As Faculty and Students Sing And Cheer Together

The annual Tech Banquet was held in Sanford Riley Hall Monday, March 13, under the direction of the Tech Council. The affair attracted over 300 students, faculty members, and trustees. A program of informal talks and Tech songs comprised the entertainment for the evening.

President Earle introduced Carl E. Wahlstrom, assistant registrar of Probate Court, as the guest speaker. He spoke on "Lincoln," and pointed out the significance of Lincoln in our lives today. President Earle in his opening address told of the building of the dormitory and its dedication in honor of R. Sanford Riley, whose efforts made the building possible. Professor Herbert F. Taylor, secretary of the Alumni Association, discussed "Getting a Job" and Arthur M. Tarbox spoke on the subject "Shooting the Oil." Unfortunately Professor Coombs had another engagement, so he was unable to be present long enough to speak.

Clinton E. Leach, '36, was toastmaster and Richard S. Howes, '36, was head of the committee in charge of the arrangements. Other members of the committee were Carleton W. Borden, '36, John E. Germain, '38, John R. Casey, '37, and John T. Rushton, Jr., '39.

The Tech Book Store cooperated with the students by paying half of the price of admission.

Due to the fact that the banquet came so soon after the Tech Carnival, there were no Freshman-Sophomore skits, as customary in former years; Nevertheless, everyone who attended had an enjoyable evening and the affair came to an appropriate ending at 10:00 o'clock with the singing of "Alma Mater."

## State Teachers And Tech Club Give Concert

Quartet and Combined Singing Groups Present Unusual Musical Program

The Worcester Polytechnic Institute Glee Club held a combined concert with the Framingham State Teachers College Glee Club Friday night, April 17 in the Alumni Gymnasium. It was the second of the two combined concerts with the State Teachers College given each season. The previous one was sung at Framingham. The audience appeared to enjoy and appreciate the music immensely. After the concert there was dancing, with the Boyntonians furnishing the music.

The program was opened by a group of selections by the W.P.I. Glee Club with Mr. Greene conducting. The first number was "Integer Vitae," an international college song in Latin. Then the club sang "Salvation Belongeth to Our God," by Tschesnekov. This group was concluded with the selection "Hunting Song." Following this the State Teachers College Glee Club sang a group by Carrol entitled "A Child's Day." The first part of this was called "Time to Rise"; next came "Rain." The third selection was called "Where Go the Boats," the fourth "Windy Nights," and the final piece "Bed-time." Then the combined clubs, under the direction of Mr. Fred Archibald, the director of S. T. C. Glee Club, sang a hymn by Crüger, "Now Thank We All Our God." Next they presented a group of Brahms' Love Songs, waltzes from his Opus 65. They were "There's Nought a Heart Can Save Thee," "Secret Nook in Shady Spot," and "From Yon Hills the Torrent Speeds." The contrast between these three numbers, especially between the last two, has been appreciated by every audience before which the Glee Club has sung them.

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## BOYNTON'S BEACON Critic's Column



March 31, 1936

My Dear Mr. Sutcliffe:

Your editorial, "Stopping to Think," in the TECH NEWS March 17, interested me. I was sorry to learn that so small a percentage of the students take active part in athletics or in some of the other extra curricula. Your presence—

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We need more students to act as general guides for At Home Day, next Saturday, April 25th, from one to five o'clock. This entails merely the guidance of visitors from one building to another, as each department will have special guides for its own displays. If students not otherwise taking part in At Home Day activities are willing to volunteer for this very necessary service, they should give their names to the undersigned at the earliest possible date. The chief factor in the success of At Home Days of the past has been the loyal cooperation of the students with one another and with the faculty. We are convinced that we may count once more upon that unflinching loyalty.

DR. LELAND L. ATWOOD  
Member of At Home Day  
Committee.

## Dr. S. Rowe Speaks, Band Gives Special Number, Tau Beta Pi Pledges At Fuller Lecture

Committee Plans Varied Program For At Home Day

Interesting Exhibits To Be Displayed By Various Departments

At Home Day, that annual occasion on which Tech welcomes outsiders, prospective students and those interested in engineering in general, to come in and see what is being done, will be held Saturday, April 25, between 1 and 5 P. M. The program this year will be somewhat simpler than in some previous years and will appeal particularly to the young man who is considering Tech as his college.

Professor G. H. MacCullough is general chairman of the day and will be aided by various sub-committees. Professor Maxfield and Mr. Higginbottom will attend to publicity and invitations. Guides and transportation are taken care of by Doctor Atwood; the programs of the various departments are under the direction of Mr. R. A. Beth of the Physics department, Professor H. J. Gay of the Mathematics department, Professor Carl F. Meyer of the Civil Engineering department, Mr. H. B. Feldman of the Chemistry department, Mr. W. W. Locke of the Electrical Engineering department, and Mr. R. G. Merriam of the Mechanical Engineering department. Publicity through the fraternities is in charge of Professor Gay and Mr. Swan of the faculty and John Brand, Henry Wrobel, Joseph Stead, Dana Woodward, Clinton Leech, J. Morrison Smith, Robert Powers, Donald DuFoe, and George Huntley.

The program of the Mechanical Engineering Department will be divided into five parts. The exhibit in the main building will contain the gas engines laboratory, the steam laboratory, the strength of materials laboratory, metallography laboratory, tests on

(Continued on Page 4, Col. 4)

American Engineer's Part in Our Relations With Our Southern Neighbors Shown

DICK ELLIOTT PRESIDES

Subject of Talk is "Some Aspects Of The Present International Situation in the Americas"

At this month's Fuller Lecture, held Friday, April 17, at eleven o'clock, Dr. L. S. Rowe, formerly Assistant Secretary of the Treasury under Wilson, and since 1920 Director-General of the Pan-American Union, gave an instructive and thought provoking talk on the subject, "Some Aspects of the Present International Situation on the American Continent."

The meeting was opened by Richard Elliott, following which Clifford Green led the assembly in two songs. The next number was an amusing novelty by the band entitled "The Circus Parade," which consisted of five movements, depicting in order the Trum-peters, the Minstrel Band, the Calliope, the Clown Band, and the Circus Band. Announcements were made relative to Friday evening's joint glee club concert and the Dorm Dance. Jack Brand conducted the spring pledging at which four men became members of Tau Beta Pi. President Earle was then introduced, and he in turn introduced Dr. Rowe, whose talk was enjoyed by every member of the rather large group that attended.

Dr. Rowe said in part: "By way of preface, I should like to pay tribute to the great work which the engineers of the country, and particularly the graduates of Worcester Polytechnic, are rendered to our relations with the twenty republics of Latin America. I have seen them at work in the mines of the high Andes, on railroads in Chile and Peru and in the construction of the port works at Callao, Cartagena and in other sections of South America. I have always been deeply impressed with the fact that they worthily represented the United States. In fact, in many respects the engineers of this country have been the most effective and influential representatives that we have sent to Latin America. They have been, as it were, the symbol of the great technical achievement of the United States.

"What has further impressed me during my travels through Latin America has been the unusual combination of qualities required of the competent engineer. As the head of a great technical enterprise in Latin America he must be not only technically equipped but must also possess the qualities of mind and heart that enable him to make friends with the people, to conduct what amounts to diplomatic negotiations with the government, as well as to manage great numbers of native workmen and to establish an asset of good will in the community in which he is operating.

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At the Annual Tech Banquet, in Sanford Riley Hall—Left to Right: Dean Zelotes W. Coombs, Professor of English and Chairman of Admissions; Clinton E. Leech of Springfield, Toastmaster and Student Leader; President Ralph Earle; and Prof. Carl D. Knight, Faculty Member of the Student Council.

## DORM DANCE - SAT., APRIL 25 - 8:30 P. M.

## TECH NEWS

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THE HEFFERNAN PRESS  
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## — editorials —

## Welcome to "At-Home-Day"ers

It is again our pleasure, as publishers of the official student weekly publication, to welcome to Tech you who have come to witness daily campus routine with a few daily attractions at this engineering Institute. All we can do is ask you to look around. Instructors and guides will be only too glad to cater to your interests, and straighten out questions you may have to offer. A large number of TECH NEWS have been printed and placed at your disposal so that you may see what our regular weekly issue looks like and to acquaint you with some of the activities on the campus. We hope very much, in fact, we expect to see you at Tech some one of these falls.

## Special From Troy

Princeton may have its Veterans of Future Wars, Vassar may have its Future Gold Star Mothers, but Rensselaer isn't going to be quite so impractical—it will have the Profiteers of Future Wars.

Realizing there's more money and less chance of injury in staying behind the lines than in fighting and getting a bonus years later, a group of the "Fighting Engineers" last night (3-24-36) went the Princeton boys one better and organized the PFW.

The PFW organization will lobby in Congress for payment in advance of the profits from contracts-as-yet-to-be-let for the war supplies of future battles. It will oppose payment of a bonus to Veterans of Future Wars as advocated by the Princeton group and the ten other chapters which have already joined it.

The Profiteers will also lobby against the payment of pensions to Gold Star Mothers of Future Wars. Pres. Buell Webster of Waterbury, Conn., RPI senior, says:

"Shares of stock in the Profiteers of Future Wars are being sold for fifty cents to every one except teachers, lawyers, doctors, college professors, widows and orphans. Special Class B shares costing \$1 each will be sold to these classes.

"Class B stock will be preferred, preferred in not paying dividends," said Chairman of the board Francis Wasley, '36, of Bristol, Conn.

"We're going to get in on the gravy, instead of being made into gravy," said Wasley. "Any common share-holder is entitled to a free medical exam showing he has flat feet, astigmatism, partial deafness or other disability exempting him from military service.

"This will not apply to Class B stockholders. They're usually suckers anyway. Our common stockholders will be able to sit back with a blonde in each knee and a case of champagne under the table and enjoy life during the next war."

## Opportunities Ahead

During the last few weeks, students of high calibre have been selected by their professors and recommended to representatives of large concerns, as good material for future development in the field of engineering. This group under the present circumstances must necessarily be a small portion of the minority on the Hill, which constitutes the leading figures of each class. These men will be given opportunities which will accelerate their advancement and rate of compensation. Each of these men deserved their just merits, otherwise the professors on the Hill would not have seen in them the qualifications and ability that the large concerns want and need.

These opportunities are open to any man on the Hill who will apply himself diligently to his studies and in his spare time always show his best qualities in activities.

The lower classes should especially take a lesson from seeing upperclassmen receive choice positions. The members of the freshman and sophomore classes are now in position to make good names for themselves if, and only if they will strive for the best things obtainable at all times. It is needless to say that if some of the envious upperclassmen were to voice their opinions of their present status they would no doubt wish they had in the past applied themselves more fully. It is more often the case where work is to be done, that a little extra effort when consistently applied, will put the individual just so much more ahead of his colleagues that, when elimination for the best man occurs the diligent

worker will win out. These words are trite but true. It will pay large rewards however, to the individual who heeds them.

## First Aid For the Campus

How many of us realize the fact that we here at Tech are surrounded by a beautiful campus; a campus that is better than many, and certainly equal to those of many colleges three times as large? Yet, how many of us stop to think of this fact, and, appreciating it, try and do our part to keep our campus clean and beautiful, a campus of which we may be proud. There are many ways by which this may be accomplished with the cooperation of everyone.

At this time of year the ground is soft, due to condensation of the frost, and the grass is attempting to grow once again. In realizing this we should try to refrain from taking short cuts which really amount to a saving of only a few dozen steps, and walk only on the paths and sidewalks provided. In this way we will not be leaving deep footmarks in the soft earth and hindering the growth of fresh green grass. Which looks the better to you, a campus full of bare spots or one completely covered with a blanket of velvety green grass?

Another condition which could easily be remedied is that existing on the drive between the gym and dorm, on the grassy slope to the old soccer field. Many students with cars speed in here and allow their cars to run three or four feet up the banking before coming to a stop. This practice is gradually killing off the grass and causing deep ruts in the banking. This practice is unnecessary and childish and shows a lack of cooperation on the part of those guilty few.

We all realize that everyone's cooperation is necessary to carry through any plan, so let's all show a little thoughtfulness, show that we are proud of our campus and give the grass a chance.

## Airways—a Problem

April seventh near Uniontown, Pennsylvania, another death-dealing air crash occurred, killing eleven of the fourteen people on the plane and seriously injuring the remaining three. This was just one of many such crashes which have been happening far too regularly since the advent of commercial air-travel in this country. Hardly a week passes in which the newspapers of the nation do not give forth the gruesome details of the crashing of an air transport and the subsequent loss of life. The worst part of these disasters is the fact that very often it is a group of the most prominent people in the country's affairs who ride the commercial airways.

Why can't this flying experiment be dealt with as an experiment? When scientists discover a new cure for a dreaded disease they try it on mice or guinea pigs until they are absolutely certain it will cause no loss of human life; the air experiment from its very infancy has continually tried to overstep itself, and as a result many lives have been lost. (We don't, however, advise in filling cockpits with guinea pigs). Readers will ask how European countries can carry on commercial air travel with a comparatively small number of accidents. Here is one instance where Americans must admit they are far behind the Europeans.

There are two very important questions facing the American people concerning passenger air travel: First, must we have inferior passenger air service and if we must, does the price make it worth keeping? Second, why must the citizens who are most important to the nation's welfare continue to use what has definitely proved to be the least safe method of transportation in the country?

## PEDDLER PICTURES

All the pictures for publication in the "Peddler" will be taken within the next few weeks. The schedule of appointments for these pictures will be posted in the TECH NEWS and on the bulletin boards in Boynton and in the Gym at least a week in advance. It will be much easier for everyone if each individual keeps himself posted as to these appointments and makes a special effort to be on hand at the appointed time. All the studio pictures will be taken at Bushong's Studio, 311 Main Street.

It is the duty of the officers of the various organizations to see that members of the organizations are informed as to the time the picture is to be taken. The secretary should drop notes in the boxes in Boynton informing the members of the appointment several days in advance.

Any conflict in appointments or changes desired should be communicated to A. Shepardson, box in Boynton or Tel. 2-9632.

NOTICE TO SENIORS! All proofs must be returned to Bushong's Studio by May 1.

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Tues., April 21—  
4:30 p.m.—Photograph of A. S. M. E. officers—Bushong's Studio.  
Wed., April 22—  
12:00 noon—Picture of Freshman class, in front of Gym.  
4:30 p.m.—Members of the Rifle Club—Bushong's Studio.  
Thursday, April 23—  
12:00 noon—Picture of Sophomore class, in front of the Gym.  
4:30 p.m.—Members of Newman Club, Bushong's Studio.  
4:45 p.m.—Members of the Interfraternity Council, Bushong's Studio.  
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...but the squirrels  
were disgusted

TELEPHONE engineers had to find a way to stop gray squirrels gnawing holes in the lead sheath of telephone cables. Even a tiny hole may let in moisture—short circuit the wires—and put a number of telephones out of service temporarily.

Many ideas were tried, but the squirrels gnawed on. Finally the cables were painted with black asphaltum and sprinkled with sand. The gnawing stopped.

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# ATHLETIC ACTIVITIES

## Track Squad To Show Strength In All Events

**Ashwell, Miseveth, McGrath, Taft, Coffin Head Well-Rounded Team**

Spring track got under way this week, when a large group answered the first call and began to get in training for the coming season. The team will be severely handicapped by the loss of Ed Hatch and Allen Chase, both of whom have transferred to other colleges. However, the Freshman class has a number of track men among their ranks, who will help the team out. In the 100 and 220 yard dashes there seems to be an oversupply of good men in William Frawley, Samuel Mencew, Stan Olson and Norman Coffin. In the 440 the best prospects are Gil Ashwell and Angelo Mauriello, both of whom have been running on the relay team this last winter. In the half mile are Robert Taft and Fred Kraemer, who was quite a high school runner. The mile and two mile will be taken care of by three cross country men—Franz Strandberg, Jack Lancaster, and James Patch. The team seems to be well supplied with good weight men in Bill Miseveth, Harold Townsley, and Mal Chandler, with the former two having been on last year's track team. Ed Hanson and Brian Minalga have shown up best in the javelin, while Jack McGrath, Norman Coffin and Al Stevenson are the broad jumpers. The prospects in the pole vault were not too bright with only Henry Blauvelt out for this event. Fred Banan, Jack McGrath, and that versatile athlete, Dave McEwan should succeed in taking a number of places in the high jump. McGrath, Mencew, and Bonin will take care of the hurdling events.

## Captain Borden Calls First Tennis Practice of Year

**Three Veterans On Squad**

Several men reported to the Tennis call-outs last Tuesday. Although the coach was absent, Carleton Borden, Captain, took charge of them. He was assisted by last year's letter men. The following men reported for practice: Robert Hamilton, Douglas Merrill, A. G. Mallis, W. B. Wadsworth, Charles Sliva, Gardner Mills, John Hughes, R. Karakoosh, James Lane, G. A. Sherwin. There are three veterans out to hold their former berths: Carleton Borden, Capt., Charles Michel, and Robert Nimmo. The Freshmen turned out in fine style just as in other sports, and seem to have some excellent material. By all appearances the Tennis team should have a very successful season.

## Theta Chi Cops Bowling Title

**Scott Wins Individual Scoring Honors From Cronin**

The final round of the intramural bowling matches found Theta Chi the winners with a total of 24 points won as against 8 lost. The team representing Alpha Tau Omega came in rather a close second, piling up 22 points and losing only 10. Theta Kappa Phi was third, winning 21 and losing 11 points. Although Scott of T.X. quickly set the high mark of 128 for others to shoot at, he finally lost the honor of

having the best single string to George Sherwin of A.T.O., who came through with a brilliant 135. Scott, however, still holds the best three string total with a pinfall of 328. Theta Chi holds the best team single with 387, and the best team three string total with a high score of 1089.

The final standing of all teams is as follows:

Team	Won	Lost
T. C.	24	8
A. T. O.	22	10
T. K. P.	21	11
L. X. A.	20	12
P. S. K.	15	17
T. U. O.	15	17
P. G. D.	12	20
S. O. P.	8	24
S. A. E.	7	25

The individual averages are as follows: Scott 90.2, L. Cronin 89.7, Constant 88.2, Gale 87.8, Lundquist 87.6, Sherwin 87.3, Dearborn 87.2, Bell 86.3, Edmunds 86, D. Wilson 85.6, Sadick 85.5, Irvine 85.4, Hamilton 85.3, Maine 85.8, Lang 84.7, Howes 84.6, Macmillan 84.6, Merrill 84.5, Goodwin 84.4, Ellsworth 84.4, Harvey 84.3, Gamache 84.3, Fine 84.1, Mallis 84, M. Wilson 84, Milliken 84, E. Cronin 83.8, Stauffer 83.6, Bridgman 83.2, McGrath 82.8, Stone 82.5, Sawtell 82.5, Blauvelt 81.4, Ham 81.5, Atwood 81.5, Blauvelt 81.4, Reatty 81.3, Levine 81.3, Hitchon 80.6, Germain 80.6, Hanson 80, Hughes 79.2, Kiem 79.5, Nims 79, Trotter 78.6, O'Neil 78, McEwan 77.8, Messimer 77.2, Crane 77.2, DeFeo 76.8, Cox 71.6.

## Houses Begin Baseball And Track Events

**Mudgett Twirls Perfect Game For Phi Sig in 7-0 Win From Phi Gam**

Schedules have been released for interfraternity track and baseball and the latter teams have already swung into action.

S. A. E. opened the season with a 14-2 win over T. X. Sam Aluhas threw a scare into all other teams by striking out 13 T. X. men. Jack Mudgett, of P. S. K., threw an even greater scare into future opponents by pitching a perfect game against P. G. D. Only fifteen batters faced Mudgett and all were retired in order, nine by strike-outs. P. S. K. won this game 7-0, by hammering the pitching of Hitchon and Elliott. In the only other game played the newly formed S. O. P. team defeated L. X. A., 7-6.

T. U. O., the defending champions, have yet to play, but they are certainly facing stiffer opposition this year than they faced last year.

The track meet, to be held Thursday and Friday of this week, will also be closer than last year. T. X., the defending champions, and P. S. K., runners-up by one-half point last year, will face keen competition from P. G. D. and T. U. O. Last year's winners who will be defending their championships will be: N. Coffin, P. S. K., in the 100, 220 and broad jump; P. Stafford, T. U. O., in the 880; C. Bonin, P. S. K., in both hurdle events; H. Townsley, P. S. K., and B. Minalga, T. C., in the weight events.

### CLUBS AND DEPARTMENTS

#### SKEPTICAL CHYMISTS

On April 1 a meeting of the "Skeptical Chymists" was held in the chemistry lecture hall. President McGinnis

opened the meeting for business at 7:45 P. M. After a short business meeting when Secretary Olson read the minutes of the previous meeting, the papers of the evening were presented.

The first subject, "Some Uses of the Polar Molecular Concept in Elementary Chemistry," was presented by L. A. Young, '37. Mr. Young discussed electrovalence, covalence, dipoles and dipole moments and their application to elementary chemistry, giving an exhaustive survey of his subject.

M. G. Cohen, '37, gave his paper entitled "The Development of Lacquers," in which he discussed the history of the development of nitrocellulose lacquers in the last hundred years. Mr. Cohen explained the difficulties encountered in finding the correct solvents and artificial resins to give the lacquer the properties necessary for practical use.

The third paper was on "Chemical Warfare" and was presented by S. S. Naistat, '37, who gave a brief history of the uses of chemicals in fighting since from ancient times to the World War. He went on to discuss the types of gases used as weapons throughout the length of the World War, some lethal and others putting a man out of action temporarily.

After these three excellent papers the meeting adjourned and refreshments were served.

#### CITY PLANNING FOR CIVILS

The nine Senior Civils taking the optional course in City Planning under Professor Meyer are making a study of traffic conditions in Washington Square. Each student will submit a report of his findings and will recommend the installation of some form of the "Malcher Steadyflow System." This is but one of the practical problems in the field of city planning which the class will study at first hand.

This year the course in City Planning will again have the assistance of

Mr. Harold L. Robinson, a well-known civil engineer of Worcester. Mr. Robinson is Secretary of the Worcester Planning Board and Chairman of the Worcester Board of Survey. In addition to acting as advisor in some of the field problems, Mr. Robinson will deliver four lectures to illustrate some of the practical aspects of City Planning, as follows:

April 22—"The Functions of a Planning Board"

April 24—"Technical Procedure in making a City Plan."

April 27—"Second lecture on "Technical Procedure."

May 4—"The Work of the Board of Survey."

#### A. I. E. E.

A meeting of the Student Branch of the A.I.E.E. was held Friday, April 3, in Sanford Riley Hall.

The feature of the evening was an interesting lecture by Mr. Arthur F. Snow, Service Supervisor for the Worcester Electric Light Co. Mr. Snow spoke on "Methods of and Experiences in Locating Radio Interference." Locating interference, as explained by Mr. Snow, is in the majority of cases quite simple from a technical viewpoint. The method makes use of a "Sector Coil," and earphones, sometimes in conjunction with an amplifier. The principle involved is that when the coil is brought near the troublesome lines an e. m. f. is induced in the coil and transmitted to the earphones.

In locating the source of interference humorous incidents occur quite frequently. A common experience is that of a customer who complains and it develops that he has some device such as a heating pad which causes interference not only to himself but to his neighbors. The familiar ticking in the Physics building was once heard by residents near the Institute. Other

### SUMMER POSITIONS

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sources of interference are: oil burners, refrigerators, cleaners, etc. Trolley car interference cannot be readily eliminated. One of our Senior Electricians demonstrated, very effectively, a new source of interference when, after the meeting he started his electric razor.

The Student Branch Convention will be held in New Haven May 6-8, 1936 at Yale University in conjunction with the North Eastern District Meeting. A complete program is given in the April issue of "Electrical Engineering." Those who are planning to attend should see Professor C. D. Knight as soon as possible.

#### CAMERA CLUB

At the meeting of the Tech Camera Club, Tuesday, April 21, Mr. J. E. Woodbury of the Woodbury Engraving Company will speak on Color Photography. The meeting will be held at 7:30 in the M. E. Library.

The annual exhibit of Tech Camera Club will be held in the Music Room of the Gym on "At Home Day" to Tuesday, April 28. All students of Worcester Tech are invited to enter this contest. Prizes will be awarded. All prints should be left with Mr. Perry or in S. R. H., room 216 before 4 o'clock on Friday, April 24.

# G-E Campus News



#### X-RAY FOR ART'S SAKE

IS there a portrait of Great Uncle Ezra gathering dust in the attic? It may pay to x-ray Uncle before handing him over to the junkman, for behind Ezra's imposing whiskers may be hiding the sister of the Mona Lisa.

Not long ago, a portable G-E X-Ray Corporation unit disclosed a valuable canvas by the seventeenth-century artist, Goya, concealed under an apparently worthless picture. More recently a New Orleans painter and art expert has used the x-ray to discover a genuine da Vinci signature beneath layers of paint applied by a later and less-capable artist. A sister painting to the newly found da Vinci recently sold for a quarter of a million dollars.

The x-ray does more than discover lost Old Masters; it tells how the great artists of the past worked. A series of radiographs can disclose the full story of their brushwork from the first sketch to the last correction. The art student of today, by an intelligent use of the x-ray, is in a position to take lessons from the geniuses of the past.

#### MORE BRIGHT SPOTS ON THE GLOBE

THE mellow, golden-orange glow of sodium lighting is springing up all across the continent. The latest installation, the largest in the United States, is located in the state of Washington. Here sixty-six 10,000-lumen General Electric units line almost three miles of the four-lane Pacific highway between Tacoma and Fort Lewis.

Less than three years ago the sodium lamp made its first American appearance on a highway near Schenectady. Today the largest installation is on the Pacific coast, and the second-largest is at Lynn, Mass., on the Atlantic. In between, highways, bridges, traffic circles, and underpasses are being lighted for safety with these new luminaires, and G-E sodium lighting units have been installed in Canada, Hawaii, India, Spain, South Africa, Dutch East Indies, and Brazil.



#### NO CLICK!

THE life of the party, coming home with the milkman, need no longer fear the betraying click of the light switch if his house wiring includes the latest electric switch developed in the G-E Research Laboratory.

Two shallow chrome-steel cups, sealed together with a strip of glass, form the two contacts. A ceramic disk with a hole in it, and a few drops of mercury, partly fill the enclosure between the cups. The device is filled with hydrogen and sealed by welding. In the "off" position, the hole in the disk is above the mercury level. A rotation of twenty degrees to the "on" position permits the mercury to flow through the hole and make the electric connection.

The time-honored click of the switch is abolished. In the laboratory in Schenectady, one of these mercury switches has turned a 200-watt lamp on and off some 65 million times in the last two years, and there are no signs of wearing out or failure.

96-245FBI

**GENERAL ELECTRIC**

# Life Work of Wood and Rowan Subject of Chapel Talk Given By Pres. Earle As Lent Ends

Carrying of Message To  
Garcia Described as Les-  
son in Initiative

TALK WELL ATTENDED

Schedule of Eminent Chapel  
Speakers For Week  
Announced

In the future, to many of us will come the satisfaction of having accomplished something great or small for the world, that will demonstrate to us, we hope, and if not to us, to our descendants that we did not live in vain. What that something may be there is absolutely no way of learning now, the work we do here if done with all our might should make the result worthwhile. Whether we, as engineers, continue through steam, electricity, chemistry, and the marvels of pure science and research, to develop new ways of improving living conditions for the world, or as men of other professions we carry forward high ideals, makes no real difference; it is the results that count.

What we can do for the future is a thought that comes to us at Easter as we think of its lesson. Christ's resurrection came after the Crucifixion. It is true and appreciated by all that in a like manner true happiness comes after trials and discouragement. Thus joy can come with a flash, like sunshine after weeks of gloom. And joy can stay with us forever, safe in our hearts. That is our Easter lesson. We may get discouraged but we do go on cheered by this Christian spirit abroad at Easter tide.

How does the world recognize accomplishment? In various ways, even with condemnation, it is true. Today in this uncertain apprehensive age where values are ever changing let us look at how some of the big things done in the past are recognized.

On the sixth of this month we saw in many cities parades of veterans in recognition of Army Day. Did any in these parades believe he was advocating war? Most certainly not. He was only showing his respect for those that had won in the face of personal danger; victories that go to all of us in America, all we now have in the way of peace, prosperity, home and country, and expressed the thought that what he had helped win was worth keeping. Our country was worth fighting for and so the Army Day spirit reminds us that we should keep it. Peace and prosperity can be bought only at a sacrifice and to fight for the right is a noble thing indeed. Even as Easter shows this in the Christian's spiritual life so Army Day does in our physical lives.

Next week on the nineteenth patriots will be recalling the verse "One if by land, two if by sea, and I on the opposite shore will be, ready to ride and spread the alarm through every village, Middlesex and farm," with devout thankfulness to their forebears who started the fight or the war that was to make the United States of America. If they had not been willing to go through hell for what they considered right there would have been no heaven for us to enjoy.

In a major and a mass way these two events stimulate us all to appreciate the debts we owe to our best men and women.

Individuals in our nation that have left a lasting mark in the world are many, but on this April morning we will mention but two, both with whom April is especially linked.

At Tampa during the Spanish war I met and admired a tall soldierly man, Colonel Leonard Wood, then in command of a regiment known as the

Rough Riders. Once a contract surgeon in the army, he had been made famous by one of the most arduous but successful cavalry chases ever made in the Apache wars of our southwest, and thus he became a soldier. This was largely because he was a born leader—success there was due to his analytical mind deciding that if Eronimo, the Apache leader could go without food or equipment so could he and his men. While I felt that in him I had met a real man, no stretch of my imagination permitted my visualizing his actual greatness. A little later I saw him as governor of Santiago, a city that in a few short months he changed from a pest hole to a healthy dwelling place for Cubans, and later still at Havana, it was my pleasure to know him. There, as governor general of Cuba, he transformed the city from a notorious yellow jack habitation to one of health and happiness. Soldier and physician and statesman and superlatively great in all, a rare combination was General Wood. What was his major contribution to civilization? Governor General of the Philippines he determined that he would devote his rare efficiency to stamping out the curse of leprosy. By enthusing those about him, guiding them and helped in a big way by that "Florence Nightingale of the lepers," Mrs. Dorothy Paul Wade, wife of a leading physician, he started out on a program of research and improvement in the methods of treating the scourge. Funds came in slowly, but the "Leonard Wood Memorial" was created, and, though the man himself now has gone, his humanitarian and christian work goes on at the world's largest leper colony, Culion. Since the work was started, some ten years ago, approximately twenty-five hundred patients have been dismissed from this colony as free from leprosy. A new life, a resurrection for them.

April also brings to mind the carrying of that famous message to Garcia by Colonel Rowan of the army which has given the business and industrial world its greatest lesson in initiative. It is well said that as an inspiration to youth his statue should be placed in every college in the land. The great factor which makes success in life is initiative of the kind he exhibited.

Now after the mid-term examinations, as you start on your second term, these examples of ability, if remembered and applied, are bound to help you through to success. In the Easter spirit which says true happiness comes after trials and discouragements we must earnestly tackle our future, and change its uncertainties into certainties, as did our forefathers, the patriots; and replace apprehension by faith for the coming years, all of which can come about when we take a good grip on the joys of life, play the game like a man, fight against our own weaknesses, recalling that the greatest sport the world affords is fighting for the right, and endeavor to grow in strength as a gentleman—a Christian.

(Continued from Page 3, Col. 5)

5:00 p.m.—Sophomore Class Officers, Bushong's Studio.

Friday, April 24—

4:30 p.m.—Freshman Class Officers, Bushong's Studio.

4:45 p.m.—Members of Cosmopolitan Club, Bushong's Studio.

5:00 p.m.—Members of the Camera Club, Bushong's Studio.

The Rev. C. I. Wilson will be heard at chapel services on Tuesday and Wednesday of this week and on Thursday and Friday, the Rev. L. C. Holmes will speak. Next Monday, Prof. F. J. Adams of the E. E. department, a new chapel speaker, will talk.

## EVENTS OF THE WEEK

- Tues.—Intramural Baseball A.T.O.—T.X.
- Wed.—Intramural Baseball S.A.E.—T.U.O.
- Thurs.—Intramural Baseball P.S.K.—T.K.P.
- Intramural Track Meet, 4:00 p.m.
- Fri.—Intramural Baseball L.X.A.—P.G.D.
- Intramural Track Meet, 4:00 p.m.
- Sat.—At Home Day 1:00 p.m.—5:00 p.m.
- Dorm Dance 8:30 p.m.—12:00 p.m.

TECH NEWS meeting Tues., April 21, in TECH NEWS Office. News assignments will be given out Tuesday at four o'clock in B-19.

(Continued from Page 1, Col. 3)

tation of the advantages of following such activities was sound and well expressed and should be convincing to those who excuse themselves for lack of time, etc. Those who sit in the bleachers can never receive the benefit from the game which those who play it enjoy.

To me one of the most valuable features of Tech is the opportunity you students have to develop LEADERSHIP under the direction of a staff of able administrators and leaders. C. J. Freund, University of Detroit, says, "Leadership calls for well-rounded character and personality. Hence, the college faculties need to seek breadth rather than specialization in such curriculum revisions as they will make from time to time. Moreover, the student should learn to work and play with his fellows, he should learn co-operation, and give-and-take. Perhaps the student activities, recently somewhat discredited, need to be restored to their former standing." I like to think of the Worcester Polytechnic Institute as a trainer of young men for leadership rather than for research, fine and spectacular as that may be, and here is where our students need the development which comes and can only come in hearty participation in the extra curricula.

It would be a great thing for Tech if every student might take this interest in at least one seasonal game throughout the year I am wondering if groups might not be formed of those who hold aloof, each group led by an active student and this spirit of sport and extra activity universally developed in the college. If such an arrangement could be successfully worked out and carried through, I am sure these students, who now hold back, would be benefited throughout their whole college course and their future by such an experience and so be eternally grateful.

Sincerely yours,  
C. F. BAILEY, '88

April 13, 1936

My Dear Mr. Sutcliffe:

On a number of visits to Tech as I passed through the shops, I have seen many of the students at work wearing overalls or smocks which were conspicuous because of their dirty and untidy appearance. This detracted seriously from the otherwise fine and

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favorable impression which must have been conveyed to visitors. You are soon to have another visitors' day when these conditions may possibly be repeated. I have thought that an editorial by you in the TECH NEWS and enlistment of the students might change the conditions. The custom in the United States Navy is a very wise one, I think, that the men should appear always in presentable condition with clean person and clothes. If you could enlist some interest in this matter, I am sure that Admiral Earle and all of the superintendents, instructors and students would be pleased and benefited if a change might be brought about.

(Signed)

(Continued from Page 1, Col. 2)

this season. It is a very striking one. After these selections the W. P. I. quartet sang a group beginning with the sea chantey, "Off to the South We Go" and including "Eveline," a barber-shop quartet piece, and a negro spiritual, "Come on Board." The varsity quartet of the glee club is composed of William Worthley, first tenor; George Chase, second tenor; Donald Greenwood, first bass; and Walter Ecklund, second bass.

After intermission the State Teachers College string orchestra played two selections.

(Continued from Page 1, Col. 4)

stress distribution, belts and blowers, lubricating and fuel oils, and demonstrations of computing and integrating devices and drawing courses. Another exhibit will be in the power house and the third in Washburn shops, containing the forge shop, machine shop, pattern shop, and aeronautics laboratory. A fourth exhibit will be in the foundry, and the last, the Alden Hydraulic Laboratories at Chaffins.

The Civil department will have an exhibit of actual instruction in laying out railroad and highway curves near the corner of Boynton and Salisbury Streets, in Topographical Survey near the corner of Boynton Street and Institute Road, and in Structural Design in Boynton Hall. There will also be an exhibit of survey instruments, student drawings, calculating instruments, and models.

The Chemistry department will have demonstrations being conducted in the Chemical Engineering laboratory, in the Chemistry lecture room, in the Theoretical Chemistry laboratory, in the Sanitary Chemistry laboratory, showing, among other things, wood preservation and measurement of dust pollution in the air. There will be exhibits also in the mineralogy museum, Freshman chemistry laboratory with a class in Quantitative Analysis, and Organic Chemistry laboratory.

The Electrical Engineering department will have demonstrations on the main laboratory gallery showing circuit analysis, on the main laboratory floor showing tests on machines, rectifiers, line insulators and wave form, in the west wing of the basement in

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the new Electronics laboratory, and in the main laboratory showing high frequency radio measurement, new methods of insulation, and historical displays dealing with the development of illumination, vacuum tubes, metering devices and electrical machines.

The Mathematics department will have specimens of student work and mathematical models on display.

The Physics department will have a demonstration in the Physics lecture hall on transformation of heat into sound, a flame that hears, designs caused by vibration, polarized light, and artificial lightning.

(Continued from Page 1, Col. 5)

"In fulfilling these requirements, the engineers of the United States incidentally have performed a great service to our country as well as to the countries in which they have operated."

After discussing the influence of increasing investment of American capital in Latin America and the changes brought about by the "good neighbor policy" of President Roosevelt, Dr. Rowe said: "The circumstances which I have just discussed have served to bring about a new relationship between the United States and the republics of Latin America. The suspicion and distrust which characterized the early decades of this century have disappeared. But what is even more significant than the elimination of distrust has been the new spirit of co-operation and mutual helpfulness which has been developing during the last few days.

"Combined with this there has been a growing determination that all inter-American disputes, no matter what their character, should be settled by the orderly process of mediation, conciliation and arbitration. It is a notable fact that during the last sixty years not less than thirty-two boundary disputes have been settled either by direct negotiation or by arbitration. Many of these controversies were of the most difficult and delicate nature and their peaceful settlement is an indication of the international atmosphere of good will which prevails on the American Continent. We had a striking illustration of this fact in the settlement by conciliation of the dispute between Peru and Colombia which, had it occurred in any other section of the world would certainly have resulted in prolonged armed conflict. Even the tragic war in the Chaco between Bolivia and Paraguay, which has now been brought to an end through the combined action of a group of the American republics, furnishes another example of the deeply-rooted sense of continental responsibility for the maintenance of the peace of the Western world. The last International Conference of American States held at Montevideo in 1933 clearly demonstrated the fact that here on the American Continent the reign of law rather than the reign of force must prevail."

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