



# Armour Tech News

Student Publication of the  
ARMOUR INSTITUTE OF TECHNOLOGY  
CHICAGO, ILLINOIS  
Published Weekly During the College Year



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Vol. VII MAY 26, 1931 No. 15

"Give me liberty or give me death."  
Patrick Henry.  
Born May 29, 1736.

## Intermission

The semester is almost over, the events of Junior are in the past, the Honor Cycles have been given out, the various athletic teams either have finished or are finishing their schedules, and with this issue the publication of the *Armour Tech News* for this school year is completed.

Commencement Night will soon be here and with it will come the end of the school days of the great majority of the graduating seniors. A few will go on to take academic work at other institutions but most will start the life long task of making a living. We, ourselves, certainly are not in a position to offer advice to the graduates. Still we feel it fitting to point out that all authorities on the subject seem to agree that life in business or in a profession, like life in school, is largely what the individual makes of it. It can be either a pleasure or a grind depending, to a considerable extent at least, upon the attitude of the person himself.

We take this opportunity of congratulating the entire senior class upon having successfully completed its work at Armour and of wishing them the best of good fortune in the years to come. Also, at this time, we offer our best wishes particularly to those seniors who either directed or aided in the work of the *Armour Tech News*. It was a pleasure to work with them and it is our hope that after graduation they will continue to keep in touch with school and with the staff of the *News*.

Next September, those students who are not to graduate now will return to school. It will be their task to continue the work of the various organizations in which they are interested. It will also be their task to assimilate the new freshman class which will enter Armour at that time. The new men will have to be recruited by the athletic teams, the publications, or the other organizations and they must be made an integral part of the student body. This is work which can be done only by those men who are at present freshmen, sophomores, or juniors and it will be up to them to do it.

The class of 1931 has completed its work and is about to leave school for other fields of endeavor. Those of us who remain here still have duties to perform and must work together in order to accomplish them satisfactorily.

W. H. R.

When man shall have learned to look upon himself as a citizen of the universe, considered as One Commonwealth—to what a knowledge of himself will he attain!  
Cicero.

## "The Slipstick"

Cleave to "The Slipstick"; let  
the Slapstick fly where it may.

### CONTRIBUTOR'S DAY

Here they are, men, and if you don't like them it's your own fault.

#### PICKLED PERKINS

There was a young fellow named Perkins,  
Who had a great fondness for gherkins;  
He went to a tea  
And ate twenty-three,  
And pickled his internal workin's.  
—Anonymous.

#### ODYSSEY OF A HAT

"Where did you get that fine new hat?"  
"I bought it ten years ago, Seven years ago I had it newly pressed. Three years ago it was dyed black. The year before last I had a new band put around it. Last week I exchanged it in a restaurant."  
—Kiddo.

Bonnie:

The girl friend wanted to know if a stationary engineer manufactured writing materials.  
—Jaesm.

### Why We Write Prelims

Pat was fortunate enough to obtain a job in a steel mill two weeks after he arrived in this country from old Erin. The very first thing the boss gave him to do was to measure an iron plate with a two-foot rule.

After a ten minute interval Pat returned with a broad grin on his face. Asked for the size, he answered:  
"Well, it's the length of this rule and two widths of my hand with this stick added, and one length of my shoe and a finger."  
—Chemico.

### GOT OFF EASY

The good parson was inquiring as to how Sambo's friend came out in the court trial.

"Well, Sambo, how did Rastus make outen de trial?"  
"I tell yo', mister Pahson, de jedge don' gib him three months in de jail house."  
"Seems to me dat dat's a mighty light sentence, ain't it?"  
"Yeh, dat ain't half bad but dey goin' to hang him wen de time is up."  
—Skiff.

Pat and his friend were out riding when they came in sight of an old gallows. The friend, anxious to display his wit, asked:  
"Pat, do yez see thot?"  
"To be sure Oi do."  
"And do yez know where yez'd be if th' gallows had its due?"  
"Faith an' Oi do. Oi'd be here ridin' alone."  
—Rad.

### Capable???

At a recent banquet given by the local association of piano movers, one of the participants was heard to ask a brother piano mover:  
"Could you pass me the bread?"  
—W. L. S.

And Dollar Bill steps up with this time-worn prayer:  
Onward, onward,  
Oh time, in thy flight,  
Make that darn bell ring  
Before I recite.

Our Scotch joke specialist (who prefers to remain anonymous) writes us a long letter stating that after much investigation he has found that the one reason why the Scotchman always eats his lunch in the shade is that under those conditions his shadow cannot ask for a bite.

### POSTPONED

"Heard that your boss fell from a ladder yesterday."  
"Not so loud!! It happens tomorrow."  
—Two Bits.

Max thinks that the reason a fellow will walk a mile for a Camel is so that he can ride the rest of the way.

"Wot you say? Peddlin' papers on a nite like dis will gimme noomonie? Don't be crazy, sellin' papers keeps up de circulation."  
—Bloney.

### Stop—Look—Listen—

"Hey Mike! Don't come down that ladder on the north-east corner. I took it away!"  
—Cyclone.

Thanxalot for the contribs, fellas, we had the day vacation with nothing to worry about. We received quite an assortment and picked these as being among the best. Seeing as this is the last issue of the *News* we also wish to thank each one of you who has helped during the term. So we'll now say:  
"Adios, but not goodbye."  
—THE BONGNEER.

### Inquiring Reporter

What was the most interesting exhibit on Open House Night?

Harold Davidson, C. E., '34: I enjoyed the television demonstration immensely even though I had great difficulties pushing through the crowd in the small room. The camera used for taking micro-photographs of metal also attracted my attention.

H. P. Richter, C. E., '32: The architectural exhibition showing drawings certainly was the best exhibit of Open House Night. The life drawings attracted everybody entering the Main building.

Max J. Schinke, E. E., '32: The huge Tesla coil located in the Electrical lecture room, without a doubt proved to be the most interesting and spectacular. I believe this stunt of producing artificial lightning should have been placed in the assembly hall in order to accommodate the spectators.

H. F. Becker, F. P. E., '33: Different types of fire alarm boxes were an interesting feature in the F. P. E. department, and some of the visitors took pleasure in sounding the fire siren.

### Three Sessions Held By League Delegates

A representation of the League of Nations Assembly was staged by delegates from the leading colleges and cosmopolitan clubs of the middle west in Mandel Hall, University of Chicago, last Monday and Tuesday.

The object of this convention was to furnish to those who realize the importance of every means of fostering more compete international understanding, an opportunity to see just what the League of Nations is accomplishing towards this end.

Representing Armour among the polyglot aggregation of delegates were: O. T. Barnett, V. Rimsha, and H. L. Gibson, chairmen of the delegations from Colombia, Latvia, and Haiti respectively.

### FURTHER CHANGES AID IN WORK OF ELECTRICAL LABS

One of the many major changes which have come with the renovation of the Dynamo Laboratory, has been the removal of the festoons of wire which presented a very unscientific and disorderly picture to the casual observer. Like Topsy in "Uncle Tom's Cabin," these impromptu decorations "just grew" and became so numerous that it was finally decided that they should be removed.

#### Replace Open Wiring

In accordance with this plan, the open wiring was replaced with conduit which terminated at the various columns in the laboratory where the apparatus is located.

Portable blackboards have been removed from the room and permanent boards have been attached to the backs of several lamp racks, thus eliminating the unstable element which is associated with the use of the portable units.

#### Improve Power Supply

The sophomore electrical engineering laboratory has also been improved from the standpoint of flexibility in securing direct and alternating current. Outlets have been placed at all the shelves around the room and each one is marked for polarity. The kind and voltage of electricity needed can be controlled from a panel in the storage battery room by clamping the proper clips on suitable studs which are placed in a fused circuit.

These improvements have come to fill a long felt need and their advent has been greeted with favorable comment both by visitors and the students.

### ARX NEWS

If it isn't one idea it is another. Granger and Bollenbacher, a city architectural firm, has conceived the idea of erecting a cooperative office building, worked on the same plan as the cooperative apartments. It is well thought of by leading architects. Plans have been made and hopes of erecting it on North Michigan Avenue are high. If any one is interested they can call and see Mr. Venning of the above firm.

Frank Lloyd Wright has written a new book, called "Modern Architecture." Whether you like Wright's architecture or not, you'll like this book. He writes in such a different style and atmosphere. We hold hopes of getting it in the Burnham library soon. A few of the main ideas are listed below:

Principle is the safe precedent. Human traditions, like styles, are garments to be put on or taken off. Buildings are like trees when allowed to be themselves. Creation never imitates—Creation assimilates. . . The creature imitates and simulates. From the ground up is good sense for building.

A preliminary study was required from the seniors, on the problem for the Architectural Sketch Club Scholarship. A judgment was held, the winner of which was to receive the two hundred and fifty dollar prize given by the school each year to a graduating architect. Al Mell was the gentleman who copped this years and did he deserve it! His problem was a beauty. That a boy! Al. Keep it up!

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### FINAL EXAMINATIONS

Second Semester, 1930-31

Friday, June 5, 1931

8:30-10:20		
Descriptive Geometry.....	Foster Seegrift Sear	Drafting Room, 5th floor
Machine Design.....	Swineford Winston	Room D, Mission
Chemical Engineering (Junior Ch.E.).....	McCormack	Room C, Mission
Heating and Ventilation (Architects).....	Perry	Room B, Mission
10:30-12:20		
Hydromechanics.....	Paul	Gymnasium
Applied Mechanics.....	Leigh Mangold	
Elementary Surveying.....	Jacobson	Room D, Mission
Strength of Materials.....	Wells	Room B, Mission
1:10-3:00		
Physics I & II.....	Wilcox Doubt	Gymnasium
Physics (Arch).....	Colvert Thompson	
3:10-5:00		
Quantitative Chemistry.....	Tibbals Gill Carpenter Schommer	Gymnasium
Elements of Elect. Engrg.....	Richardson	Room D, Mission
Saturday, June 6, 1930		
8:30-10:20		
Precision of Measurements (Physics Laboratory).....	Doubt Colvert Thompson	Gymnasium
Organic Chemistry.....	Freud	Room D Mission
10:30-12:20		
Engineering Mechanics I & II.....	Leigh Mangold	Gymnasium
Monday, June 8, 1931		
8:30-10:20		
Calculus II.....	Mathematics	Gymnasium
College Algebra.....	Instructors	
10:30-12:20		
Analytic Geometry.....	Mathematics	Gymnasium
Review Algebra.....	Instructors	
Thermodynamics.....	Nachman	Room B, Mission
1:10-3:00		
Plane Trigonometry.....	Mathematics	
Applied Trigonometry.....		Gymnasium
Calculus I.....	Instructors	
Steam Power Plants.....	Nachman	Room B Mission
3:10-5:00		
Experimental Engineering (Jr. ME, Jr. EE, & Jr. CE).....	Laboratory Instructors	Gymnasium
PLEASE REPORT ALL CONFLICTS TO THE OFFICE OF THE DEANS IMMEDIATELY		

### BOOKS TO BE READ

Recommended by  
Professor George L. Scherger, Ph. D.

Durante, Story of Philosophy.  
Paulsen, Introduction to Philosophy.  
Paulen, System of Ethics.  
Westermarck, Origin and Development of Moral and Religious Ideas.  
Browne, Lewis, This Believing World.  
William James, Varieties of Religious Experience.

Dorsey, George, Why We Behave Like Human Beings.  
Dimnet, Abbe, The Art of Thinking.  
Schopenhauer's Essays.  
Emerson's Essays in Compensation and Self-Reliance.  
Carlyle, Sartor Resartus.

Emil Ludwig, Napoleon.  
Emil Ludwig, Bismarck.  
Emil Ludwig, Goethe.  
John Morley, Voltaire.  
John Morley, Rousseau.  
John Morley, Gladstone.  
Lord Charwood, Lincoln.  
Carl Sandburg, Lincoln.  
Woodberry, Washington.  
Randall, Benjamin Franklin, the First Civilized American.  
Bowers, Claude G. Jefferson and Hamilton.  
Strachey, Life of Queen Victoria.  
Autobiography of Herbert Spencer.  
Life and Letters of Charles Darwin.  
Life and Letters of Charles Eliot Norton.  
Life and Letters of Thomas Huxley.  
Jeans, J., The Universe Around Us.

Eddington, The Universe Around Us.  
Dampier, Whetham, History of Science.  
Marcus Aurelius, Meditations.  
Epictetus, Handbook.  
Farrar, Canon, Seekers After God.  
Omar Kayam, Rubayat.  
Wordsworth, Poems.  
Keats, Poems.  
Shelley, Poems.  
Browning, Shorter Poems.  
Tennyson, In Memoriam.  
Goethe, Faust, (Bayard Taylor's Translation).  
Benvenuto Cellini, Autobiography.  
Shakespeare, Hamlet and Macbeth.  
Victor Hugo, Les Miserables.  
Rolland, Romain, Jean Christophe.  
Tolstoi, Anna Karenina and War and Peace.  
Dostozeski, Crime and Punishment.  
Galsworthy, The Forsyth Saga.  
Galsworthy, Collected Plays.  
Ibsen, Dolls' House and Other Plays.  
Truckery, Vanity Fair.  
Dickens, David Copperfield.  
George Eliot, Romola.  
Lytton, Last Days of Pompeii.  
Scott, Ivanhoe and Talisman.  
White, Natural History of Seiborne.  
Darwin, Origin of Species.  
Darwin, Descent of Man.  
Henry Fairfield Osborn, Origin and Evolution of Life.  
Henry Fairfield Osborn, Men of the Old Stone Age.  
Travels of Marco Polo.  
O'Brien, Shadows in the South Seas.  
Haliburton, Royal Road to Romance.  
Beebe, Galapagos.  
Beebe, Edge of the Jungle.  
Lecky, W. H., History of European Morals.  
Lecky, W. H., A Memoir.  
Buckle, History of Civilization in England.  
Burckhardt, Care, The Culture of the Renaissance.  
J. R. Green, Short History of England.  
Trevelyan, History of England.  
Fiske, John, The Critical Period of U. S. History.  
Frazer, J. B., The Golden Bough (Abbreviated Edition).  
Neuman, E., Richard Wagner.  
Romain, Rolland, Beethoven.  
Faure, History of Art.

### FRATERNITY NOTES

**RHO DELTA RHO**  
A successful dinner-dance was held at the Carleton Hotel in Oak Park on May 23. Professor and Mrs. Nachman and many of the alumni chapter were present.

**DELTA TAU DELTA**  
Dave Baldwin, F. P. E., '30, has announced that he is "taking the plunge" on Independence Day. Stan Owens and Jeff Aplanaugh were down for Circus Day. Herman Meithe, an Illinois Delt, is still residing at the house.

**PHI KAPPA SIGMA**  
The Indiana Dunes have been selected as the location of the annual Phi Kap picnic, which will be held next Sunday, May 31. Most of the active members of the chapter expect to attend.

**THETA XI**  
Last Sunday Theta Xi had its annual Spring Picnic at the Dunes, Indiana. Everyone had a fine time. Eats were plentiful and various games were played and combats fought. The parents of Ray Ellis came down from Petoskey, Michigan to pay a visit. Several of the other boys had their parents down for Open House and the Concert.

### A. I. E. E. TO ELECT OFFICERS

Election of officers of the Armour branch of the A. I. E. E. will be held next Friday, May 29, in room D, Mission building.  
At the University of Idaho, seniors will wear formal attire for 1931 annual pictures instead of the traditional cap and gown.

### Gibbs Award Winner Tendered Banquet

Phoebus A. Levene, the 1931 recipient of the Willard Gibbs Award, was the speaker at the banquet given in his honor by the Chicago section of the American Chemical Society last Friday at the Steuben Club.

On Saturday Dr. Levene delivered his formal address on "Chemical Structure and Optical Activity" at the Archibald Church Library on McKinlock Campus under the auspices of the Northwestern University Medical School and the Chicago section of the American Chemical Society.

At the banquet on Friday evening, Dr. Levene's subject was, "The Revolt of the Bio-Chemists." The actual presentation of the medal was made by Professor F. C. Koch of the University of Chicago. Other speakers were Dr. L. V. Redman, President-elect of the society, and President R. M. Hutchins of the University of Chicago.

Six of the major prizes in the Camel Cigarette Contest were won by college graduates. A total of 952,228 answers were received in this widely advertised competition. Thirty-eight prizes were awarded, with a first prize of \$25,000, second prize \$10,000, and the third prize \$5,000. The winners represented men and women from every walk of life.

### Senior Mechanicals Have Inspection Trip

On May 14th Professor Gebhart led the senior mechanicals on a trip to the largest generating station of the Edison System. They had a very enjoyable trip for the subject was interesting and the guides were well acquainted with the plant and did not try to rush the men through.

This particular station has six turbine units ranging from 50,000 to 104,000 K. W. These are all modern turbines of the reheating-extraction type and develop a combined output of 440,000 K. W. Water is taken from the sanitary district canal and the steam reaches a temperature of 750 degrees F. in enormous boilers which are stoker-fired. This steam is supplied to the turbines at a pressure of 600 pounds.

The electrical end of the installation handles 3-phase, 60 cycle, 12,800 volts.

This is the largest plant of the Edison System and cost about 45 million dollars. It has the world's record for the largest one-day output of energy and has a potential power of almost a half a million horsepower.

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Even your ear can tell the difference. For a dried-out cigarette crackles when you roll it.

But the real test is *taste* and taste is causing a great nation-wide switch of men and women alike to Camels in the scientific new Humidor Pack. As you draw in that fragrant, mild, cool smoke, redolent with the joy of choicest Turkish and mellow Domestic tobacco, only then do you realize the full importance of this new Humidor Pack.

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If you are already a Camel smoker you have noticed the improvement in this your favorite cigarette.

If you don't smoke Camels, try them for just one day to see how much you're missing. After you've known the mildness and delight of a really fresh cigarette, switch back if you can.

Smoke a fresh cigarette

It is the mark of a considerate hostess, by means of the Humidor Pack, to "Serve a fresh cigarette." Buy Camels by the carton - this cigarette will remain fresh in your home and office.

**CAMELS**

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### A. I. Ch. E. Holds Seniors Inspect Annual Smoker Telephone Plant

On Wednesday evening, May 13th, the Armour branch of the American Institute of Chemical Engineers held its annual smoker at the Sigma Kappa Delta house.

Dr. C. D. Lowry Jr., of the Universal Oil Products Company, was the guest of the evening. Dr. Lowry presented a very interesting lecture on "Alchemical Abstracts." in a very humorous style.

The assembled chemicals were enlightened by Dr. Lowry on distilling operations and apparatus of the pioneer chemists. All through the progress of chemistry it is rather singular that methods of separation have not changed.

A guaranteed hair restorer, consisting of a solution made by boiling a horse's neck in a lead jar full of oil, was described by Dr. Lowry. A method of obtaining a delicate facial rejuvenator by distilling snails was also presented for the benefit of the "chemicals."

Following the feature of the evening, entertainment of different character was presented in a group of piano selections by J. E. Westenberg '31.

The guests of the evening of the active chapter included Dr. Lowry, Professors C. A. Tibbals and W. J. Bentley of the chemical engineering department, in addition to "Griff" of storeroom fame.

The senior electricals recently made an inspection trip to the Illinois Bell Telephone Company. The telephone industry deals with some very complex and advanced phases of the electrical art, and its works are always interesting and instructive exhibits of ingenuity and engineering skill to visiting students. Perhaps this fact accounts for the no absence record which seems to be concurrent with the telephone inspection trips.

Last Tuesday's trip was a visit to the long lines division, located at 225 West Washington Boulevard. Before the actual inspection began, the men assembled in the lounge for brief introductions and talk.

The first speaker dealt with equipment design, touching upon the various phases, such as construction, place of installation, and also provision for future needs. The second talk was by an "outside" man whose realm is the actual construction and maintenance of overhead wires, cable ducts, and all the other factors which play their part in telephonic communication.

The last speaker came from the plant where the long lines equipment is operated, and his topic was on the operation and maintenance of the many units which come under his attention. These talks afforded a better understanding of the different apparatus which was later seen on the tour.

**PHYSICS LAB CLOSING MAY 29**  
The physics laboratory will be closed for this semester after May 29, 1931. All reports, in order to be credited on this year's record must be handed in on or before noon, June 7, 1931.

Attenuation of currents is one of the high hurdles for the telephone engineer, but repeaters and amplifiers can usually surmount most of the difficulties. Where radio chain programs are involved, these repeaters and amplifiers must be designed so

as to operate with a flat amplification curve over a wide range of frequencies. For high class broadcasts, this range is from thirty-five to eight thousand cycles.

By using carrier waves of different frequencies for the various services, as many as seventy-two circuits can be carried on one pair of wires.

The guides distributed pamphlets and wiring diagrams at the end of the tour and also presented a telephoto picture of the president of the A. T. and T. This picture was sent by long distance and was practically perfect in every detail.

