

### 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

### 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.

#### PHYSICS LAB CLOSES 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.

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.

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

### 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.  
Dimmet, 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.  
Trackeray, Vanity Fair.

Dickens, David Copperfield.  
George Eliot, Romola.  
Lytton, Last Days of Pompeii.  
Scott, Ivanhoe and Talisman.  
White, Natural History of Seaborne.  
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, Kare, 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.

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.

### 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 Aplanough 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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