

FAMED SCHOLAR TO LECTURE IN ASSEMBLY HALL

German Physical Chemist at Armour

Beginning this week on Friday afternoon at four o'clock in the Physics Lecture room, Professor Tropsch of Prague, Czechoslovakia will give a series of lectures to the senior chemists. There will be a lecture each week throughout the year at this time.

From a chemical standpoint, Professor Tropsch's interest is in the study of catalysts and the use of these catalysts in the synthesis of paraffin hydro-carbons. The theme of his lectures is to be catalysts in chemical reactions.

Probably the contents will be the methods employed in the preparation of catalysts, testing catalysts for efficiency, and the technique of conducting catalytic reactions.

In addition to the attendance of the senior chemists at these lectures there may be men present from the practical engineering field. The latter have been invited to take in these lectures if they can find time, for the subject matter to be given has never been scheduled before at Armour or at any other school, for that matter, in this country.

The chemists are extremely fortunate in having Professor Tropsch for these lectures. A good part of his life has been spent in the study of catalyst materials and he is considered a world authority on them. Not only has he conducted research in this field, but he has also written ninety-four books on the subject. The titles of these texts range from "On Derivatives of Lutidine Acid and Alpha Gamma-Diaminopyridine", his first book, to "Experiments on the Influence of Carbon Dioxide on Reduction," his fortieth publication, and to "The Composition of the Products Obtained in Petroleum Synthesis," his ninety-fourth text. All of his works have a wide circulation.

Professor Tropsch was born on July 10, 1889. From 1907-1912 he attended a German technical high school in Prague and the German University, also in Prague. Then in 1913 he received a Degree of Engineering from the technical high school in Prague.

From 1912 to 1914, Professor Tropsch was assistant to Professor Hans Meyer at the German university in Prague.

The dye-stuff industry claimed the attention of Professor Tropsch next. He was engaged in this branch of work for the next two years from 1914 to 1916. In 1916, teaching again claimed his attention. This time at the Kaiser Wilhelm Institute in Ruhr.

Professor Tropsch was with the Institute for one year before branching off into the coal tar industry. He was a chemist in this industry for three years, being there from 1917 to 1920.

After three years in the tar industry the professor went back to the Kaiser Wilhelm Institute as an assistant director, being located in Ruhr for a period of eight years from 1920 to 1928.

In 1928, Professor Tropsch returned to Prague to become a director in the Coal Research Institute of Prague. He also became connected with the "Privatdozent Deutsche Hochschule" in Prague.

Cavanagh to Attend Honorary Convention

Jack Cavanagh, President of the Armour Chapter of Tau Beta Pi, will attend the annual convention of the fraternity at Cleveland on October eighth, ninth, and tenth.

He will meet several other delegates in Chicago and then travel with the group to Cleveland. Here the gathering will spend the major portion of their time in the usual fraternity convention legislation with the remaining moments to be occupied with various entertainments, among which will be a formal dance.

A. T. A. A. APPOINTMENTS

Stanley M. Lind, president of the Armour Tech Athletic Association has made the following appointments. Roger Wainle as chairman of inter-class athletics; Edward H. Chun as chairman of interfraternity athletics; and Maurice S. Erisman as publicity manager.

Inquiring Reporter

Question: What do you think of the improvements that have been made about the buildings?

Replies.

T. A. McGill, E. E., '32. The improvements in the electrical and physics laboratories have made these places much more pleasant in which to work. The brighter shade of paint as well as the new system of lighting that has been installed has made a considerable improvement in visibility.

J. O. Cavanagh, Ch.E. '32. I was particularly impressed by the improvements that have been made in the metallurgy laboratory. The many improvements in the spacing of equipment in all of our laboratories has been a decided step toward better work.

Milton J. Winogrand, Ch.E. '33. I think that the improvement that was made in Science Hall has been the thing that impressed me most. The upper part of the room with its white paint supplements the extensive lighting system that was installed last Spring makes this room one of the most modernly equipped of any that I have seen.

J. R. Jackson, Jr., F.P.E. '32. Now that a load has been taken off the heads of the news staff, cleaner and better news may be expected to come forth from the renovated offices. The improvements for the office (and the school) were much needed.

Emmet Scanlan, F.P.E. '32. I was impressed by the new face on the clock just outside the electrical department office. It should inspire greater bursts of speed on the part of those who rely on it when they are late to classes in the Main Building.

L. G. Wilkie, C.E. '32. The several improvements which have been made in the buildings have been needed for some time. The new radio laboratory will be greatly appreciated by the men who take the course. I also notice that sirens have been installed in Chapin Hall. Science Hall also has been decorated so that it looks more attractive.

V. J. Minnick, E. E. '32. The new lights which have been installed in the library, in Science Hall, and in several other rooms will prove to be conducive to better work among the students. I think the Armour Tech News office looks much better with its walls cleaned and a few coats of paint applied.

An Untimely Deluge Traps Locker Owners

Unfortunately for the readers of this paper the omnipresent eye of this humble member of the fourth estate happened to wander into the basement of the Main Building last Friday. And the result of this aimless wandering is herewith presented in a woeful tale of student suffering.

It appears as though Jupiter Pluvius smiled upon the dear old earth in a bountiful fashion on this all-important morn and the viaducts were refreshingly flooded. Yea, even the basement of Main received its just due in the aqueous line. In other words several inches of water surrounded the lockers in the lower portion of school.

With all the expressions of dismay known to man plainly written on their faces, stood a group of students. (Professors please reconstruct the foregoing sentence before reading it.) Of course they were not standing in the aforementioned water but were perched in precarious positions along the stairs and banisters leading to their nemesis.

An enterprising young engineer constructed a wooden bridge from the stairs to the lockers. But due to an overloading (personally I think he forgot to consult his strength book) the bridge collapsed and many shoes became submerged in the murky rainwater.

Professor Bibb Is Now Convalescing

Professor Bibb of the mathematics department has not yet returned to school this semester due to illness. He has been confined to his bed with a severe case of septic poisoning. His recovery has been slow, but he hopes to be back on the job sometime this week. During his absence, his classes are being conducted by Professor Spencer.

The Standard Volt

Being a Treatise on
the Thury System
of Gastronomic Taxation

By the Bongineer

The local standard volt, now on display in the Marine Dining Room of the Institute, is a gift from the late head of the Department of Clerical Engineering, who is now on a pension marking cals papers. The presentation was made shortly after the donor had obtained the third degree for his work on wormodymaniacs.

This standard volt, of the unsaturated type, is one of the most precise and inaccurate in existence; being always at least ten motorcycles off of its assigned fluency. But this condition is due simply to the fact that the exo-gravie crystals of cadmium are not of the piezo-electric type. For this and other reasons the volt is soon to be removed to a padded cell in the cable vault under the intersection of Federal and Thirty-third Streets. The keys may be obtained in the Phys. Lab. but will not be available to any student who is less than twelve reports behind in his work. The standard volt is caliperated no less often than umpteen times each century in our own steam plant by our own freshmen who attain an accuracy of nine places on the slide rule.

In the process of caliperation, which is interesting, if true, the volt is put in a hieroglyphic frequency sifter in order to kill off any foreign stamps or prohibition agents. Thus purified, the liquid is gasified until solidified, whereupon it is nullified, vitrified, and finally diversified to the extent that upon being further fortified, it becomes both amplified and certified. This process then ends in the liquid containing, aside from the standard volt juice, thirty percent water, forty-five percent oxygen, fifty-nine percent nitrogen, twenty percent miscellaneous, and thirty-two percent of the rest of the constituents. Accounting for about two percent of the component parts in this manner, there is still one hundred percent which is lost to the atmosphere in the form of brickbats and dum-dum bullets. If the log scales are used, the weight is just that much less.

It may be well said that the latest form of the standard volt is a distinct departure from the conventional type of seven element tube. The unusual characteristics and performance obtained are made possible only by the introduction of a second disconnection, of novel design, which extends from the automatic volume control to the oil-cup de-odorizer. It may be here stated that if the full resources of the volt be employed, the operation of sixty million washing machines, twenty-five hundred thousand curling irons, and fifty-nine hundred electric fans could be guaranteed for at least ten thousand light years with enough energy left to supply a city of three million with illumination and power for two and one-half years, providing this much electricity could be obtained from an outside source, since the standard volt will not even sustain a flashlight lamp for one minute. This simply shows the illimitable reserve of the volt and how it may be depended upon in an emergency to furnish energy

News Office Painted by Staff Members

In keeping with the general improvements being made about school, the Armour Tech News offices are being decorated.

The work is being performed by members of the News Staff, and consists of cleaning the three rooms of the offices. Walls are being painted, wall paper cleaned, floors painted or varnished, furniture varnished, and lighting fixtures improved.

These changes are being made to give the men on the paper a better place to work in and to make compiling the news easier.

The suggestion that the offices would look better newly decorated, brought a number of men to the fore who professed to know something about painting and carpentry. These fellows, including E. G. Avery, G. L. Bonvallet, E. W. Carlton, H. Davidson, J. S. McCall, W. H. Rudolf, and L. G. Wilkie, are working on the job with E. W. Carlton supervising the proceedings.

FRATERNITY NOTES

TRIANGLE

Brother S. M. Spears, Kentucky Chapter, and recently appointed Ass't. Prof. of Civil Engineering at the Institute, will help to fill up the link between the faculty and the chapter, which was somewhat broken last spring by the death of Brother Alfred E. Phillips, then head of the Civil Department.

Pledge Roy Coleman, of the Kansas Chapter, is making his home with us while working here in Chicago.

Triangle will hold its eighteenth annual National Chapter School October 10 and 11 at the St. Clair Hotel. Maynard Venema, President, and Harold Bodinson, Treasurer, will be delegates from the Armour Chapter.

BETA PSI

Beta Psi takes honor in announcing the election of Professor Mangold as National President of Beta Psi.

Brother Kubicka and Pledge Patla have strengthened the recruits by again returning to school. Patla, it will be remembered, was Captain of last year's successful Rifle Team.

PHI KAPPA SIGMA

Carroll Simons, Howard Hendricks, and Ralph Lake were representatives of the Armour Chapter at the National Convention of the Fraternity held in Chattanooga, Tenn., during the second week of September.

KAPPA DELTA EPSILON

Kappa Delta Epsilon takes pleasure in announcing the initiation of George Rosenthal, Ch. E., '34. The initiation took place at the Indiana Sand Dunes. The new domicile of the chapter will be 3215 Michigan Blvd.

A banquet was held September 17, at the Brevoort Hotel and every member was present.

SIGMA ALPHA MU

After a pleasant summer marked by two beach parties at the Indiana Sand Dunes and a formal dinner dance at the Edgewater Beach Hotel, the chapter is again together for the school year.

Aaron Poriss has returned after visiting his home in Connecticut.

Al Auerbach, C. E., '31, is taking Postgraduate work at the University of Illinois under a Tau Beta Pi scholarship.

for an army (of lead soldiers). There lies the whole secret; for further particulars, write your congressman, he knows less than you don't.

At this point it may be instructive to dwell on the reactions of the standard volt to incremental changes in flux distribution in polyphase glue pots. Of course, one must remember that since stress is proportional to strain, and since variety is the spice of life, then why live when it costs so little to dye. And another point; since the speed is operated at a higher point on the magnetization curve, it can easily be seen that if the shaft were to rotate, it would no longer be at rest.

The standard volt is kept at a variable constant temperature since the voltage decreases and rises, simultaneously, at the rate of .001118 gram per second per bushel percent on open circuit. The instrument is very senseless at certain times of the day; but at other times, for precision work, it must be used in conjunction with a three phase vibrator hactilograph potentiometer which has been Reichsanstalt tested by an incompetent assistant junk dealer. Under proper conditions, which are never obtainable, a 250,000 henry current can be drawn when using the special one melleon megohm battery operated by a clockwork motor which is kept in synchronism with an ultra-hoopeddo rectifier photolyte wrapped in an old newspaper.

A few words on the psychical construction of the standard volt will help to illuminate any person interested and will confuse everyone else. The original latest model is contained in an old tomato can which is filled with phlogistic hydroxide (edible). The saline baths prove a great invigorator and as a result the volt transmits a succession of gum wrappers until the brush potential remains constant, according to a galvanized galvanometer. A range finder is provided with an adjustable constant so that different voltages may be evicted. The gears require oiling every day once a year with a very light grade of heavy oil, and this necessity is complied with, taking care that the

Anderson Promoted by Large Concern

O. A. Anderson, '15, has been appointed head of the Architectural, Construction, and Mechanical departments of Armour and Company. The two former departments were consolidated with the later department upon the retirement of Mr. Anderson's predecessor, Mr. Robert C. Clark, who supervised the building of Armour Institute.

Worked During Vacations

Mr. Anderson first began to work for Armour and Company during his summer vacations. At this time he worked in the drafting room. Upon his graduation from the Institute in 1915, he entered the permanent employ of the company and was assigned to maintaining efficiency in the power plants.

Duties Broadened

In 1919 his duties were broadened to include the mechanical supervision of the smaller packing plants and the creameries. In 1924 Mr. Anderson was given charge of the installation and operation of all mechanical equipment in the Armour plants throughout the country and in July, 1929, he was appointed head of the Engineering Department.

A farewell dinner was given Mr. Clark by his friends in the packing and construction industries. This gathering was held at the Elks Club, at Wells and Washington Streets. Armour was represented by Mr. G. S. Allison and Mr. Palmer of the Cashier's office. Dean Penn and Dr. Raymond were invited also but could not attend.

Dr. Raymond Gives Radio Talk Today

President Raymond is scheduled to give a second talk from radio station WMAQ, under the auspices of the Adult Education Council of Chicago.

This talk will be delivered at 10:40 A. M. today and will be on the subject of adult education. This is the second of three talks which Dr. Raymond is giving on this subject, the third of which will be given sometime in November or December.

The fame of the Empress Eugenie hats is spreading. The freshmen at St. Benedict's College are wearing them in place of the usual skull caps.

of the oil comes in contact with the gears. Another point worth considering is that the speed is directly proportional to any adiabatic increase in velocity. A formal proof will not be given here but may be found in any good, non-corrosive dictionary. In order to provide constant potential for distant points, the resistance is over-compounded ten percent at full overload wattage, a feature which in itself is worth double the cost of half the price which the instrument would command were its worth equal to three times the product of its value and its registration fee. It is therefore unnecessary to state that the standard volt is not only an efficient time waster, but a great economic institution, backed by some of our most influential citizens.

In our own laboratories, the standard volt is used mainly as an indicator in the phenomena of the quantum theory. In this respect it demonstrates the linearity of current response to light flux caused by ionization of the billiard balls used at the Faculty Club. Unfortunately, the metals used are extremely active and, since they do not react chemically, the use of indecent lamps is necessary. Another use of the volt is in the determination of the moment of inertia of electrical conductors and motormen as applied to the kinetic calculation of the harmonic transient reactance of vector potential rise of the potato bug. Under these conditions the standard volt becomes as accurate as a ten inch ammeter which has been dropped from a height of ten thousand feet to a concrete pavement.

In conclusion we may point with pride and view with alarm the fact that in dew time the standard volt will be a necessary evil in every testing plant, every laboratory, every gas station, and every shoe shine parlor in the city, and possibly in the nation. In this direction we are headed, and the researchers are doing a great piece of work in removing the coal piles which lay in the way of the international movement for the advancement of the demotion of the cause of the standard volt.

ALUMNI NOTES

Fred Attwood, Ch.E. '31, has recently been made advertising manager of the International Filter Company, located at 59 E. Van Buren St.

His duties include the handling of the accounts and ordering of materials for the department.

The International Filter Company deals in water treatment and purification plants.

O. A. DeCelle, Ch.E. '14, is vice-president and sales manager of the same company, while C. F. Vander Molen, C.E. '28, is service manager.

J. M. Kahn, ex-'27, and F. J. Lamars, ex-'29 are employed in the same company as sales engineers.

R. Patzelt, E.E. '31, and W. Driegot, '31, are attending the Commonwealth Edison Company school.

Manuel Yzaguirre, Ch.E. '31, is now employed by the Armour Company in their chemical research department.

Isadore Drell of the same class and department is with the Sanitary District of Chicago.

E. F. Rutkowski, C.E. '31, has transferred from the U. S. Geological Survey to the division of Highways, State of Illinois, located at Paris, Ill.

Leonard H. Dicke, Charles Wiant, and B. S. Lindquist, C.E.'s '31, have positions in the U. S. Engineer's office at 333 N. Michigan Ave.

Don Fetterman, E.E. '31, is assisting in the completion of an electrical book for the American School of Correspondence.

Harry Bailey, Ch.E. '31, made a trip to Pittsburg recently.

Willard S. Denning, M.E. '31, is in the insurance business in New York.

Roscoe H. Windbigler, C.E. '31, is in the employment of the Illinois State Highway department at Streator, Ill.

Alvin B. Auerbach, C.E. '31, is studying for his Master's Degree at the University of Illinois.

A. J. Lenke, F.P.E. '31, is working in Milwaukee with the Wisconsin Inspection Bureau.

Rifle Club Needs Several New Men

A meeting to be held tomorrow, Wednesday, at 12:30 in Science Hall will launch the Armour Tech Rifle Club into a season's activity which promises to be even more successful than that of last year. The purpose of the meeting is to get new members, especially Freshmen, who will be able to carry on in future years. If time permits after a discussion of the matches which are being planned, officers for the coming year may be elected.

Students who wish to become expert marksmen will have the opportunity of shooting with members of a championship team. Every man on last year's squad is back this year; several of them have been keeping in trim during the summer at Fort Sheridan and elsewhere. The membership, which costs \$1.25 a year, provides for the use of the range, which is in the basement of Chapin Hall, second entrance. Members may also use the club rifle (most of the team members shoot with their own guns) and have the privilege of buying ammunition at wholesale prices.

Students may use the range during any hours during which they have no classes, with the only restriction that they keep the range ship-shape and observe the rules of sportsmanship.

Some time in October the Tech Rifle Team will meet the Humboldt Park Gun Club at Fort Sheridan for the first match. The men are confident of victory because of the several defeats they handed Humboldt last year.

Regular team members receive gold watch charms as awards from the school at the end of the year.