

"ENGINEER" TO FEATURE BUR. OF STANDARDS

Issue Will Contain Many
Articles On Recent
Developments

The work of the "Bureau of Standards" will be featured in the "Armour Engineer," which will be distributed within the next few days. The article written by Hugh G. Bantell, Associate Engineer of the National Bureau of Standards, describes the work and the arrangement of the organization. The Bureau consists of two main divisions. The commercial standards and the research and testing divisions. There are five subdivisions of the research and testing.

The "Automotive Power" division, which contains also the laboratory of the Aeronautics branch of the Department of Commerce tests, performs experimentals on the internal combustion engine and its relative problems.

The "Optics" division performs development work on all phases of light and its industrial use.

The use of the spectroscopy and its development are constant sources of interest and development in the Bureau.

Chemical procedure, experiments, and tests are developed by the "Chemical" division which is constantly adding to the information of science.

The "Mechanics and Sound" division develops standard test methods and apparatus for the development of these methods. Among the machines of greatest interest to the engineer is the Emery compression and tension machine. It provides pressures of 2,300,000 pounds in compression and 1,150,000 pounds in tension with a variation of one pound being noticeable.

The world's largest compression testing machine, supplying 10,000,000 pounds compressive load is taken for the cover design of this issue. This machine is used for the testing of columns by the Bureau of Standards.

The "Organic and Fibrous Material" divisions takes care of tests on (Continued on page 4, col. 3)

Jennings Rates High Among Tennis Stars

In the rankings of the western tennis stars, as released by the Western Lawn Tennis Association, George Jennings, Armour southpaw, was rated seventh in the men's singles, and fifth in the doubles, sharing this latter honor with Rice.

Jennings was eliminated by George Lott, Jr., of Chicago, who ultimately won the singles championship. Two other Chicagoans, Pare and O'Connell, were placed ahead of Jennings.

Twenty-Five Attend Pirandello's Drama

About twenty-five Armour students enjoyed the theatre party at the Goodman Theatre Tuesday night. The group were given the privilege of half rate tickets at 75c, instead of being required to pay the \$1.50 regular admission.

The play, "Six Characters in Search of An Author," is the work of Luigi Pirandello, an Italian, who became sick of the false sentimentality of the drama of his country and wrote this play in an attempt to depart from the accepted form.

The Six Characters do not tell the story directly, but each tells his part directly, explaining and justifying himself as he goes. The story moves inevitably and grippingly forward in dialogue and action.

Perhaps the greatness of Pirandello lies less in his invention and searching comment upon life, than in the skill with which he keeps cross-currents from confusion. The story is told with a skill that asks of the audience only that they follow it simply and let the play speak clearly for itself.

Caricatures And Biographies of Faculty Members To Be Regular Feature of News

A new feature for NEWS readers is being inaugurated with this issue. A series of biographies of faculty members, along with a pen-and-ink caricature of the professor being written up, will appear regularly hereafter for an indefinite period.

In Order of Seniority
At least one of these biographies will appear every week, and occasionally two will be published. The order in which they will be taken is the order of their seniority of rank, or the same order as shown in the list of faculty which appears in the bulletin.

President Raymond First
The subject of this week's biography and caricature, both of which appear on page three, is Dr. Howard M. Raymond. Next week, with his consent, Professor A. E. Phillips,

Head of the Civil Engineering Department will be the topic of the biographer's and the artist's pen.

Attwood, Leardi, Conduct Feature
John G. Attwood, '28, Ch. E., is the artist who is responsible for the drawing of Dr. Raymond which appears in this issue. Attwood will make a similar caricature of other members of the faculty.

T. J. Leardi, '29, C. E., will write the biographies from week to week. Both these men are new additions to the NEWS staff.

As in the case with anything else we publish, the staff of the NEWS invites the criticism of its readers as to how much or how little they enjoy it, and what it can do to improve it. Suggestions for new features which might be of general interest are also invited.

TWENTY-NINTH AUTO SHOW TO BEGIN JAN. 26

The twenty-ninth annual national automobile show to be held at the Coliseum starting Saturday, Jan. 26, will hold much of interest to engineering students. There will be shown cars and equipment produced by forty-six manufacturers. Huge crowds are expected to attend the display, breaking all records for attendance. More than 300 cars will be exhibited, valued at \$5,000,000. The setting promises to be in keeping, for an expenditure of \$90,000 has been made for decorations and furnishings.

While there will probably be many refinements in the cars, and some change in motor and chassis design, no radical changes are expected in the design or operation of the automobiles brought out for 1929. Improvements in body design, development of beautiful lines, and better interior finish promise to be the keynote of the show. Among the interesting developments of the new year is that the four-cylinder field is left practically alone to Henry Ford, with the retirement of General Motors, his biggest competitor, from the manufacture of this type of automobile.

Don't Go To Class Next Week by Mistake, Frosh

The office of the Deans wishes to make plain to the Freshmen that no classes are scheduled for next week other than the final exams. The second semester starts promptly at eight-thirty the following Monday, February 4, when registration will take place. Classes will start on Tuesday, February 5, at eight-thirty, according to the new schedule.

Reports of the first semester grades will be mailed to the students as soon as the Deans' office is able to compile them. They should reach the students within two weeks after the last examination. Grades may be learned earlier by inquiring in the Deans' office.

Honoraries' Smoker At Theta Xi House

Approximately one hundred faculty, alumni, and student members of the honorary fraternities were expected to attend the Interhonorary Fraternity smoker at the Theta Xi house last night. The efforts of the committee in charge to have some unusual entertainment were well received. For the entertainment Rezac had a three-piece orchestra give some hot tunes. Several novel stunts, including a magician's act by George Smith, '29, and a blindfold boxing match, took place.

The men who assisted J. W. Manz, '29, M. E., chairman, in the preparation of the entertainment are R. J. Guenther, '29, E. E.; B. W. Hindman, '29, E. E.; H. E. Goranson, '29, F. P. E.; John W. Gamble, '29, F. P. E.; and E. R. Rowley, '30, M. E.

Changes in schedule have been posted on the bulletin board. Programs should be made up and ready for registration day, February 4. All conflicts should be reported to the Deans' office.

ELECTIVE IN LIGHT PLANNED

A special course in Light, Physics VII, to supplement the Physics II course, and to be taught by Prof. T. E. Doubt, is being planned. All students interested are requested to see A. H. Jens, '31, in the Physics Lecture Room on Monday, Wednesday, or Friday at 8:20.

Back Issues of I. C. Ads From News Office

Students who plan to compete in the prize essay contest being fostered by the Illinois Central R. R. may receive copies of advertisements of the company which have appeared in college publications at monthly intervals for the last three years by applying at the office of the NEWS (second entrance, third floor, Chapin). Only a limited number of these sets are available, however, and after they are given out, contestants will have to write directly to President L. A. Downs of the I. C. System.

The contest closes on February 28. Every student in the school is eligible; all that is required being an essay on "The Future of the Railroads." The information contained in the ads mentioned above will be useful in writing the paper.

Prizes to be given are \$25 to the best essay from each college or university competing, and \$100 grand prize for the best essay written. Many of the students in the English classes are writing an essay for the contest as part of their regular work in the course.

Woman Economist Will Talk at A.C.S. Meeting

Tomorrow evening at 7:30 in the City Club rooms, 315 Plymouth Court, the American Chemical Society will hold its first meeting of the new year. The speaker of the evening is to be Miss Ruth Atwater, who has been for some time the director of the department of Economics, of the National Cannery Association. Her subject will be "How the Research of a Trade May be Applied to Consumers' Needs."

Miss Atwater is a well-known nutrition specialist and in her talk will endeavor to interpret the results of research to the consumer.

The research conducted in the laboratories of the National Cannery Association has enabled them to put upon the public's table the choicest meats, fruits, and vegetables the year round. Studies of methods of processing, of factors contributing to bacterial spoilage, of vitamins in canned goods, of the relative value of different weights of tin coating or containers, and many other such problems have resulted in rapid improvement in market products.

CROWD OF 200 PACKS DANCE AT BISMARCK

But For Some Reason
Walls Won't Stay
Decorated

If enthusiasm and a large crowd is the measure of the success of a dance, then the Junior Informal held last Friday evening at the Bismarck Hotel was one of the most successful ever conducted by a class at the Institute.

The Chicago Rhythm Kings came into immediate popularity with the two hundred or more couples that attended. The dance was held in the Dutch Room of the Hotel.

The only hair in the soup as far as the financial outcome of the affair is concerned is that the hotel management is holding the Junior Class responsible for redecoration charges of the ball room. Before the dance the room was beautifully decorated in Dutch taste with wall plaques, plates, and chinaware of different kinds. After the dance everything of value capable of being loosed from its moorings with anything less than a crowbar was found to be missing.

Robert J. Serson stated that while the Junior Class is willing to assume the responsibility for the loss, he is of the belief that members of the Junior class were personally very little to blame for the theft of these decorations.

Serson is at present making an effort to locate as many of the pieces as possible to reduce the amount of the damages. Dean of Students C. I. Palmer has stated that unless the debt is cleared up he will not give permission for the class to hold a Junior Prom.

Members of the Social committee in charge of the dance are: R. J. Serson, chairman; C. Beal, Preston E. Heath, Walter Scott, and J. Papanatony.

Kent Parker Returns From Tour of Globe

Kent H. Parker, '28, graduate of the Fire Protection Engineering department, who left immediately upon graduation last spring for a tramp to Australia, returned this week after a nine months' globe trot. In that time he saw Japan, China, and Australia in the Orient, and returned via the Panama Canal and the east coast to New York City. Last Tuesday evening he visited his brothers at the Theta Xi fraternity, of which he is a member.

Parker, it will be remembered, was editor of the Cycle of 1928, a cornetist in the Band and Orchestra, and honor man in his department upon graduation.

Chemists See Efficiency In Huge Lacquer Plant

Thirteen intrepid chemists from Professor Freud's class in Organic Chemistry scoffed at superstition and embarked on an inspection trip last Friday afternoon. The trip, which was made under the supervision of Harry Bailey, '30, and Fred Attwood, '30, led through the lacquer plant of the Sherwin-Williams Company in Calumet. No casualties occurred, if a spill by one of the members and the contraction of five or six colds can be excepted.

The group was highly impressed with the efficiency of the plant. Everywhere processes were so laid out as to produce the least amount of effort and the greatest safety and speed of operation. Pipes were used throughout the building to convey the hazardous constituents of the lacquer from process to process, both pump and gravity feed being in use to propel the liquids through the lines.

The lacquer industry is rapidly growing into a sizable business. Last year the Sherwin-Williams Company used \$2,000,000 worth of raw materials in its production. The lacquers are constantly being improved and their use constantly extended into new fields. The company maintains a laboratory of eight experienced research men.

EDISON CO. TO FURNISH NEXT A.I.E.E. SPEAKER

The subjects of the A. I. E. E. meeting talks for the next four gatherings of the society were announced at the final meeting of this semester, held last Monday.

The first of the series will be on "Mercury Rectifiers," by a speaker from the Commonwealth Edison Co. The second talk will be by a representative of the C. M. & St. Paul R. R., whose topic is to be "Electrification of Railroads." A Federal Electric Co. man will give the third lecture on the subject "Neon Tubes," while the fourth meeting will be taken up with the showing of a film on "Arc Welding." These topics were announced by R. J. Guenther, who is chairman of the program committee of the association.

Further business at this meeting included a report from Chairman C. J. McDonald on the meeting of the student activities committee of the American Institute of Electrical Engineers, which he and Professor Moreton attended as representatives from Armour Tech. At that meeting it was revealed that the Armour Branch of the society leads in the number of participating students.

Before adjourning the meeting, McDonald made a plea for more assistance on the part of the Juniors in conducting the meeting, so that when they become Seniors, their previous experience will guarantee efficiency in running the society.

The "Campus Club" has formulated plans for a dinner to be held next Wednesday, Jan. 30, at the Great Northern Hotel, Dearborn and Quincy Streets. This dinner will climax the social activity of the club for the term.

A. J. Frost, '30, is chairman of the committee.

Next Issue of News Out Registration Day

The next issue of the NEWS, Issue I of Volume III, will appear on Registration day, Monday, Feb. 4. At that time subscriptions will be solicited by the staff for the new semester, at \$1.00 per subscription.

The burlesque issue will not be run on February 4 as previously stated, but on Thursday, Feb. 14, which happens to be St. Valentine's Day. Thereafter the NEWS will again appear every Thursday in regular form.

The incoming staff is being organized with a view toward perpetuation of the school newspaper next year. Several of the issues of the coming semester are to be managed exclusively by the subordinates on the present staff, so that they will be better qualified to assume full responsibility in the fall.

Senior Five, School Champs, Get Sweaters

At a meeting held last Monday morning, the Senior Class voted to award sweaters to the seven members of the Senior basketball team which won the interclass championship recently. The sweaters will cost \$7.50, of which amount \$6.50 will be paid by the class and the remaining \$1.00 by the recipients.

Committee reports constituted the main business of the meeting. The Jewelry Committee promised a lower price on the class rings than has been available for several years. The chairman of the committee on photography has started with the making of appointments between the graduates and the Photographer, Isabel Sykes. According to R. F. Stellar, the Seniors should adhere as closely as possible to the appointments, although if desired, a sitting may be had before an appointment slip is given out.

The matter of abolishing the course in "Public Utility Economics" was again referred to the committee.

ARMOUR SEEKS DE KALB SCALP SATURDAY NIGHT

Varsity To Avenge Defeat
of Last Week on Floor
of Foes

Saturday night, Coach Krafft, Manager Cal Johnson, and the array of Armour cagemen will invade the basketball haunts of DeKalb Normal College seeking to avenge that 25-22 setback handed them in last week's game.

Although Armour will be the guests of DeKalb, they have no inclination to refrain from beating them. The proceedings are scheduled to be fast in every respect, and DeKalb may likely be surprised to find Armour break through their defense.

DeKalb Confident
De Kalb now, having defeated Armour, perhaps feels as though they could very easily repeat their performance. Should Armour climb into the lead in the early minutes of play, this play would no doubt jolt the confident De Kalb teachers seriously enough to show Armour has a chance to win the game.

Armour's poisonous thrusts against the school teachers in the last game stored up sufficient enthusiasm to steel them to forget the early part of the game and cause them to renew the attack they had launched in the closing minutes of play.

Armour Fails at Marksanship
Armour's failure to perfect its shots has led to the loss of more than one conflict. The two and three point margin that has constantly stood in the way of victory should be attended to. All that is necessary is to put a little more sting into their blows, and a little more accuracy into their shots.

De Kalb is next on the list. The team is determined to carry home news of a victory this time, instead of just another loss by a close score.

"Aero System of Fire Alarms," Talk to F.P.E.

Mr. H. L. O'Brian, of the Illinois District Telegraph Co., was the speaker at a meeting of the F. P. E. Society held on Friday. The subject of Mr. O'Brian's talk was, "The Aero System of Fire Alarms." That 74,000 fire signals are received by the Illinois District Telegraph Co. every twenty-four hours was one of the interesting facts given.

Garbett Leads Troop Of Pugs To So. Chicago

The Armour Tech boxing team, under Coach Garbett, will strike out to So. Chicago next Saturday evening one dozen strong with intentions of taking a meet from the So. Chicago Y. M. C. A. pugilists.

The fights will begin at eight P. M. Ten matches are expected to be fought, although a few more may be framed at the last minute.

Opponents Are Champs
The So. Chicago "Y" boxers are considered the toughest in the league. For several years in succession that team has defeated the Chicago "Y" Champs without much effort, so that the Tech boxers will be up against a stiff struggle. In addition to that fact, Saturday night's match will be the first in which most of the Tech men have competed, so that they will have to overcome their stage-fright.

The men who are in shape to compete, and who will be on hand to fight in the So. Chicago match are: Capt. Larkin, Mitchell, Buehling, Jazmer, Briggs, Whitfield, Bryant, Sandstrom, Nelson, Schlossberg, Schwartz, and Dalrymple, as well as Coach Garbett himself.

The flu still seems to be prevalent, especially among members of the faculty. Professors Richardson, Nash, Clifford, and Stevens have all been absent recently because of illness.