

Announce Plans For All-School 'Integral Ball' Early Next Fall

Plans for an all-school "Integral Ball," to be held within the first month of school in the fall, were laid tentatively at a meeting of the 4B senior class officers held last Wednesday, according to Fred Travis, 4B senior president.

Oct. 19 was selected as being the most convenient time to hold the affair, which will thus become the first social event of the fall semester. According to Travis, an effort will be made to make the essentials of this dance different from those held recently at IIT. In this line, a new ballroom will be chosen, and a different type of bid will be selected.

Traditionally, at the Integral Ball, a queen and court are elected during reign for the evening and are also named Queen and Court of the In-the evening and the chosen girls integral, the school yearbook. In the past it has been the privilege of the graduating seniors to hold an Integral Ball during the fall term.

A real effort will be made to have the choosing of the queen carried out in a different manner from which has been used recently to select the queen of Junior Week last month and the last Integral Queen. It is hoped that the response for this contest will be as good as that for the Junior Week Queen, said Jim Harfnett, 4B social chairman.

Several of the officers of the class are planning to attend summer school, according to Travis, and they will be in a position to further complete plans during the summer months. This will enable final plans to be presented to the student body immediately upon return to school in the fall.

Though still tentative, it is expected that the dance will be semi-formal after the manner of the Junior Prom. However, the final word on all features of the affair will be held until the fall term, said Travis.

New Vis Ed Head



PHOTOGRAPHIC EDUCATOR—recently appointed head of the visual education department, assumed duties as such last week.

Physics Club Will Meet

The Physics Club will meet Thursday at 5 p.m. in room 207P. A proposed constitution will be up for adoption at the meeting. Election of officers for the fall semester will also be held.

Plan Forty Courses In Evening Division Summer Sessions

Forty courses in ten curricula will be offered by the evening division this summer, according to Dr. Stanton E. Winston, dean of the evening school. Classes will commence on July 1 and last until August 30. They will be held from 6:30 to 9 p.m. on Monday, Wednesday, and Friday. All classes will be held at the Technology Center.

Registration for evening school will be held on June 27 and 28 from 6 to 9 p.m. in the Student Union Building. Tuition should be paid when registering. Veterans who wish to enter under the "G.I. Bill" should secure a letter of eligibility or a 1950 form.

Dr. Winston said that he expected an enrollment of between 800 and 1000 students this summer.

ANNOUNCE

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Emerald avenue; Arnold Rosenbloom, 5418 Ingleside avenue; Donald R. Scheid, 236 W. Sixteenth place, Chicago Heights; Leonard Schraiberg, 6343 N. Washtenaw avenue; and Robert D. Skorheim, 526 N. Humphrey, Oak Park.

Out of town winners were Harold L. Richter, 1731 Willis, Omaha, Neb., and Robert S. Satre, 703 North avenue, Sheboygan, Wis.

Announce Dedication of Ohmite Precision Instrument Laboratory

The Armour Research Foundation will unveil a new and unique service to industry in the Chicago and area on June 13 when it dedicates its Ohmite Laboratory of Precision Electrical Instruments.

Designed to provide a precision measurement of electrical and magnetic quantities approaching in accuracy those of the Bureau of Standards in Washington for organizations in this vicinity, this laboratory was made possible through the generosity of David T. Siegel, president of the Ohmite Manufacturing Company.

Dr. J. E. Hobson, director of the Armour Research Foundation, has extended an invitation to all interested members of the staff and the students to attend the program being arranged for the afternoon.

Talks by Dr. E. U. Condon, director of the National Bureau of Standards, Washington, and Dr. G. Edward Pendray, New York industrial consultant, will feature the all-day program following inspection tours through the Ohmite Laboratory and the various laboratories of Illinois Tech and its Armour Research Foundation.

Dr. Condon will speak on "The Place of Precision Measurements in Industry," and Dr. Pendray will pursue the theme, "Cooperation Between Industry and Education." The Ohmite Manufacturing Company will

be the host at a social hour following these talks.

The Ohmite Laboratory, the first laboratory of its kind with facilities in Chicago available to industry, will particularly benefit power companies, manufacturers of various kinds of electrical equipment, and colleges in the vicinity. It will also be used for graduate study and in electrical standardizing work for the various departments of the Institute.

L. W. Matsch, supervisor of power and electrical measurements for the Institute's Armour Research Foundation, and Professor E. H. Schulz of the electrical engineering department at Illinois Tech, are co-directors of the project.

Chamberlain at Tax Meet

Professor V. B. Chamberlain, of the business and economics department, was the state representative at the annual conference of the National Tax Association held at the Palmer House June 8. Appointment of Prof. Chamberlain as state representative to the conference was made by Governor Dwight H. Green.

Hatstat New President Of Electrical Honorary

Charles Hatstat last week was elected as president of Eta Kappa Nu, electrical engineering honorary.

Other officers elected were: vice-president, Grant Hansen; corresponding secretary, Leonard Rabins; recording secretary, Jim Brophy; treasurer, Paul Boggess; and Bridge correspondent, Seymour Laseco.

The chapter has made plans for a beach party to be held at the Montrose Avenue Beach this Saturday. Retiring president Walter Czeropski said that hot dogs, marshmallows, and cokes will be provided for the members and their guests.

SAM Sponsors Field Trip To R. R. Donnelley Plant

The Illinois Tech student chapter of SAM is sponsoring a tour through the R. R. Donnelley & Sons plant today.

Mr. H. P. Dutton, head of the Industrial Engineering department, said that the trip is intended primarily as a study in production control. Twenty students will participate in the tour. Preference will be given to student members of SAM.

RHO EPSILON

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length on 80 meters. It is 120 feet long and is atop Chapin Hall.

The Rho Epsilon laboratory is on the 4th floor second entrance Chapin. This radio laboratory is fully equipped. Rho Epsilon keeps its television receiver, wire recorder, and many different types of testing apparatus in this laboratory.

Anyone who wishes to send a message to a friend via the Rho Epsilon transmitter is invited to come to the laboratory and leave their message with anyone there.

During Junior Week, the transmitter was on exhibition and in operation. Also demonstrated by Rho Epsilon was their television receiving set and other equipment.

Besides all this, the Rho Epsilon fraternity furnishes the daily lunch-room music.

Chemistry Finds Better Way to Descale Steel

One of the most bothersome problems in the metal industry is the removal of scale from the surface of stainless steels and other alloys. Scale is a thin film of metal oxide which forms at high temperatures during fabrication or processing. It is very abrasive to dies and other metal-forming tools, and if not completely removed causes serious flaws in the surface of finished products.

Several years prior to World War II, Du Pont chemists, engineers and metallurgists went to work on the problem of developing a quick and positive descaling process. When success came three years later, a secrecy order prevented its public announcement at that time—the discovery went directly into war work.

Process Development

In developing the process, a group of Du Pont Chemists found that small amounts of sodium hydride, dissolved in molten sodium hydroxide, effectively removed scale without attacking the base metal or embrittling it. However, the problem then arose of finding an efficient and economic means of obtaining the sodium hydride. This was accomplished by developing an ingenious apparatus for forming it directly in the molten sodium hydroxide (700° F.) from metallic sodium and gaseous hydrogen.

Metal chambers, open at the bottom, are placed along the inside of the descaling tank and partly immersed in the bath. Solid sodium is introduced into these chambers, and hydrogen gas bubbled through. The sodium hydride formed is diffused uniformly throughout the molten caustic.

Practical Application

The metal to be descaled is immersed in the bath which contains 1.5 to 2% of sodium hydride. Scale is reduced to the metallic state for

the most part in from a few seconds to twenty minutes, depending on the size and type of material.

The hot metal is then quenched in water, and the steam generated actually blasts the reduced scale from the underlying metal. A water rinse and a short dip in dilute acid complete the process and produce a clean bright surface.

This process has been called the most significant development in the cleaning of metal surfaces in decades. It is representative of what men of Du Pont are doing to help American industry to better, quicker, more economical production methods.

MAN-MADE SPONGES PRODUCED BY DU PONT CHEMISTS

Among the most versatile members of the family of cellulose products—whose members include rayon, cellophane, lacquers and plastics—is the synthetic sponge.

Du Pont cellulose sponges have many of the attributes of the kind that grow in the sea, plus several additional advantages. For example, quality can be kept uniform; texture and hole-size can be predetermined; they can be cut to handy shapes, and they may be sterilized by boiling.

The complicated 10-day manufacturing process starts when viscose is produced by adding carbon disul-

phide to alkali cellulose (from wood or cotton), and dissolving the mixture in water and mild alkali. To produce holes, crystals of the desired size are introduced. Heating in a salt solution hardens the viscose and dissolves out the crystals. Washing, centrifuging and oven-drying complete the operation.

Questions College Men ask about working with Du Pont

"DOES THE DU PONT COMPANY EMPLOY ENGINEERS?"

There are many diverse opportunities at Du Pont for engineers. Principal requirements are for chemical and mechanical engineers, but opportunities also exist for industrial, civil, electrical, metallurgical, textile, petroleum and others. Practically all types of engineering are included in the work of the manufacturing departments and the central Engineering Department. Openings for qualified engineers exist at times in all of these departments.



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