• FACULTY BRIEFS •

Professor D. Roy Mathews and his class in local government, had as their guest Mrs. William M. Bryant, president of the Cook County League of Women Voters. Her lecture, given Wednesday, April 23, dealt with the history of the League, its accomplishments, and the practical problems of governmental reform.

It is Professor Mathew's plan to have the students secure qualified speakers on the various branches of local government. Notices of time and place of future lectures will be posted, and all students and friends of the school are cordially invited to attend.

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At a meeting of the American Mathematical Society in Washington, May 2, 3, Dr. J. De Cicco will give a paper on "Equilong Geometry of Differential Equations of the First Order."

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Helen S. Mackenzie of the Lewis chemistry faculty spoke on the subject "Nylon", last night before the La Grange Chemists' club, La Grange, Illinois. The club, composed largely of industrial chemists who are employed in Chicago, is a semi-social group which supplements the activities of the Chicago section of the American Chemical Society. Mrs. Mackenzie illustrated her talk with an extensive collection of lantern slides. She demonstrated the varied uses of Nylon by gathering a number of products which are fabricated from this chemical, including surgical sutures and fish lines.

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Professor W. C. Krathwohl of the mathematics department will speak on "Predicting class quality on the basis of orientation tests," at Butler University on May 3. This will be a meeting of the Indiana section of the Mathematical Association of America.

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Professor R. M. Sanford is to be married early in June. Congratulations!

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Attending the St. Louis meeting from the research foundation were Dr. Cyril Evans and Dr. F. W. Godwin, director of the chemical engineering division.

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For the time being Dr. M. H. Heeren of the chemical engineering division is conducting his research "on location" at Davenport, Iowa.

CHEM ENGINEERS SEE COKE PLANT

Three giant blast furnaces at the Youngstown Sheet and Tube Co. were viewed by the senior chemical engineers on Tuesday, April 22. The coking plant section of the firm is located in South Chicago. Prof. McCormack, head of the department of chemical engineering, notified the boys in advance that they were required to write a comprehensive report on the technical features of the trip.

Coke, tar, ammonium sulfate and coke oven gas are the chief products of the coking plant. The coke is used in filling the blast furnaces, and the tar is shipped to other plants to be refined. Coke oven gas is stored in cylinders and shipped to the Peoples Gas Light and Coke Co. More than 200 ton of pig iron can be taken from a blast furnace of 700 ton capacity.

After several complicated chemical processes occur, the furnace is ready to be tapped. Two outlets on each side of the furnace are opened and oxygen is blown upwards through the furnace. Molten metal is drawn off which contains an impurity called slag. Slag being lighter than pig iron rises to the top of the molten metal and is skimmed off. The final product of pig iron is about 95% pure.

The South Chicago plant usually ships the molten metal to their Indiana Harbor plant to be converted into steel by the open hearth process. The IIT engineers enjoyed the trip through the plant and the police escort immensely.

Many Changes In Curriculum To Go Into Effect Next Semester

As the result of a faculty meeting, held Tuesday, April 15, it has been learned that many radical changes are to be made in the courses to be offered next year. Two entirely new degrees will be offered: bachelor of architecture and a bachelor of science, the latter to be given in industrial engineering. Several new options are to be given, an aeronautics option, open to both civil and mechanical engineers, an option in communications, for those in the electrical engineering department. Lastly, changes will be made in the English requirements for all freshman and sophomore students.

In the future the architectural course will be a five year affair leading to a new degree, the Bachelor of Architecture. Previously the complaint had been that due to the vastness of the subject it had been almost impossible to cover all the theory and yet receive enough time to specialize in any one particular aspect of design. In the future, the courses given during the first four years will remain much the same as previously.

During the fifth year, architectural students may specialize, either in architecture and design, or city and regional planning. It is felt that the latter subject is one which will prove vital in the future. The additional year will al-

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Alpha Chi Sigma Pledges Eleven

Alpha Psi chapter of Alpha Chi Sigma recently pledged ten student chemical engineers and one faculty member.

The pledges are: Dr. Longtin, of the faculty: Elwood Daly, William Brausa, Raymond Maenner and George Sellen, juniors; and Peter Blasco. William Brazelton, Fred Greenwood, Spiro Kapranos, Robert Kirk and Frank Nilles who are sophomores.

Alpha Chi Sigma is the national professional chemical fraternity. It was founded thirty-eight years ago at the University of Wisconsin by a group of undergraduate students in the department of chemistry.

As a professional organization, Alpha Chi Sigma is founded on the premise of a continuous activity in the organization. The existence of this activity is attested to by sixteen professional chapters, and nine other groups scattered from coast to coast.

Members of Flask and Beaker, a club composed of chemical engineering students at Armour, saw the value of participation in this organization, and in '30 petitioned for chartership in the fraternity. The petition was accepted, and on December 13, 1930, the members of Flask and Beaker were initiated into the Alpha Psi chapter, forming the forty-seventh collegiate chapter of the fraternity.

Physiology Class Hears Three Visiting Medicos

Dr. Rose Jirinec of the Loyola Medical School, demonstrated to the physiology class the use of the mercury manometer as used in the measurement of blood pressure. Both the systolic and diastolic pressures of the students acting as guinea pigs were measured. In demonstrating the technique Dr. Jirinec pointed out the increase in blood pressures due to exercise and sudden activity. After the readings were taken by the demonstrator some of the students checked the readings fairly successfully.

Also presenting demonstrations to the physiology class this week were Dr. Hosbroch, surgeon at the Providence hospital. Dr. Hosbroch explained the growth of the erythrocyte, as well as the system used in blood typing. Miss Lola Allen, a technician of bacteria, also of the Providence hospital, obtained samples from the class for blood counts. After setting up the slides for demonstration the class was able to see just how the count was figured.

BUT IT'S TRUE

The U.S. produces more electric power than the next 6 countries of the world combined.

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A belch, in Japan, is considered a compliment to the dinner host.

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Cows on the slopes of Mauna Kea, Hawaii, never drink water—they slake their thirst by breathing the constantly misty air, or cropping the wet grass.

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Rameses II of Egypt probably had the largest family on record—111 sons and 50 daughters are mentioned in inscriptions.

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A series of elevators installed in Grand Coulee Dam will enable visitors to go nearly 1,000 feet under the surface of the Columbia river.

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There are seventy-six letters in the Siamese alphabet, and words are written right to left, with no spaces between them.

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In all the Celtic dialects (spoken by native Irishmen, Scots and Welsh) there is no trace or sound of the letter P.

Durkin To Discuss Problems Of Labor At Armour Assembly

"Nation Periled by Defense Tie-Up"; "Strikers Branded as Sabateurs"; "Strikers Fight for Just Rights."

These are the headlines that scream the leads to the story of the country's labor problem. To the citizen interested in the vital defense of his country and especially to the young college student who will shortly take his place in the nation's mighty and complex industrial machine the question of defense and labor appears to be the number one national headache.

In line with its policy of presenting to the students of Illinois Tech authoritative and prominent speakers the Western Society of Engineers announces that Martin P. Durkin, director of the Illinois Department of Labor, will speak at a general assembly on the general subject of labor. The assembly is to be held in Armour assembly hall next Friday morning, May 2, at 10 a.m.

Speaking specifically for the benefit of the engineers and potential employers, Mr. Durkin's talk will be subdivided into five general heads of defense and the industry strikes, National Labor Relations Board and defense, A. F. of L. versus C. I . O. with regard to defense, mediation legislation for defense period and lastly his own personal views on future permanent federal labor policy. The talk will last for thirty minutes after which the floor will be open to general discussion during which Mr. Durkin will answer the questions of the students.

ANSWERS

(Question on page three)

1. Nevada
2. St. Helena
3. (a) Texas; (b) Pennsylvania; (c) Minnesota.
4. English
5. Finland
6. Samuel J. Tilden
7. Easter
8. No
9. Bible
10. (a) Pa. (b) Me. (c) A.M. (d) L.H.D.

Junior Week—

(*continued from page one*)

will be presented with appropriately engraved medals.

On Thursday at 2 o'clock the faculty-senior baseball game will be held and this promises to be a game of real action. The highlight of Thursday's activities will be the Musical Clubs' spring concert in the Armour Student Union and the always colorful and impressive interfraternity sing between the two halves of the concert.

All students are invited to participate in the greased pole contest to be held at 9 a.m. Friday as well as the pie eating contest at 10. These events will lead to the beginning of the interfraternity and interdepartment pageant. This pageant is one of the most interesting and entertaining events of the entire week and one on which the various groups expend a great deal of time and effort.

Following the pageant the junior-senior tug-of-war will test the strength of the upper classmen. At 2 o'clock the traditional dog-eat-dog freshman-sophomore rush will commence its gory few minutes of interclass blitzkrieg. After the participants have wiped the mud and eggs from what is left of their clothes. Presentation of awards will be made by the president and dean.

A fitting climax of this week of furious activity will be the smooth music of "Toasty Paul" at the perfect spring night setting of the Shawnee Country Club.

Open house at the Lewis division is scheduled for next Monday, May 5, from 1:00 to 10:00 P. M. Originally no plans were made to hold an open house at Lewis, but through the efforts of the Lewis Chemical Society, and Professor Lee F. Supple the project was undertaken. Professor Supple was appointed to head the faculty committee in charge, other members being Dr. Boder, Dr. Countryman, Dr. Hendrick, Miss Blanke, and Miss Winkelman.

Each department is busy making plans for interesting exhibits which will illustrate the work of the department. Comparative exhibits showing the do's and don'ts in various fields of applied art is the subject of preparations being made in the art department under the direction of Miss Marie Blanke. The classes in interior decoration will demonstrate the do's and don'ts as applied in the decorating of rooms. The best use of colors, design, and the advantageous placement of furniture will all be shown.

"The Facts of Life" will be the theme of the demonstrations of the biology department. Various exhibits will illustrate the principles of evolution, physiology, embryology, parasitology, and techniques used in microscopic specimens. Outstanding among the exhibits will be that of mammalian eggs, living chick embryos and the development of facial characters to be shown by members of the embryological classes. Working with Dr. Hendrick and Mr. Cieslak are Sidney Camras, Fred Kuharich, Irving Hokin, Kate Atkins, Irwin Robinson, John Domarad, Arthur Ellis, Harold Weiss, Sol Fishman, and Kenneth Calhoun.

Attempting to achieve a correlated picture of the chemistry department's activities, some 35 exhibits are being planned that will illustrate each aspect of the science. The exhibits will start with simple demonstrations of elementary chemistry and progress through synthetic and analytical processes to the advanced work done by the departmental research program. In addition to these, each course will be represented by a display which will acquaint the prospective student with the general scope of the courses. John Ferraro and Florence Moss have been appointed student chairmen of the chemistry exhibit with Jack Greener, Harriet Kott, Thaddeus Kowalski, Jean Michaels, Lowell Stevenson, and Thomas Cafcas assisting.

The English department plans to present an exhibit of the literary achievements of former Lewis students as well as publications of the faculty. Ruth Sprague is acting student chairman assisted by a committee of students majoring in English. Plans are being made by the sociology department to display maps showing the location of churches, schools, night clubs, and other urban institutions of sociological importance. In addition to the maps which are all student projects numerous reports, diagrams and charts will illustrate the work done by students in their field work at various settlements and social institutions.

True to form, members of the home economics classes will exhibit their handiwork in foods and clothes. A style show is being planned by the sewing class, and the foods for the family and tea room management classes will display their set-ups.

Featuring several spectacular demonstrations, the schedule for the physics department exhibits will thoroughly cover all phases of the sciences. Dr. M. Alden Countryman announced that plans have been made for over thirty exhibits. Among the most outstand- will be the "seeing your voice" and the new "faithless" geyser. Dr. Countryman will be assisted by Dwight Hamilton, graduate assistant and George Jorgensen.

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