



A. M. Zarem

WITH POLITICS DAILY tightening its grip upon the political life of a disinterested citizenry, we will sooner or later find ourselves faced with the question: How long is this to continue? There are many significant acts of civic interest with which everyone, particularly engineering students, should be concerned. Probably the most dangerous and consequently harmful attitude which any group can assume toward its city government is that of quiescent disinterest in public policy. The whole theory of the democratic form of government under which we live is based upon the fact that the people who are subjected to it may have something to say about how they are to be governed. Forgetting or discarding this major point is the one thing which must never happen—and yet it seems that it has happened in the past, and there is good indication that it will continue to do so.

TIME AND AGAIN Chicago's active citizens have tried their best to overthrow "boss rule"—yet their greatest problem has been to get and keep the voters interested in what they were trying to do. Repeated violation of the law by politicians plus the abuse of powers entrusted to our city officials have become commonplace to the extent where people actually believe that they are the attendant evils of a growing metropolis. Such is by no means the case.

A TYPICAL EXAMPLE of a civic problem which should affect all of us is afforded by the city manager plan bill which was rejected by the Illinois House in a hectic session on April 13. The vote was 72-67. Although the bill was not intended for Chicago itself but for all cities in Illinois, still it was emasculated by that private group known as the "Chicago gang." As explained in a previous article, the enacting of this measure would not force any city to adopt the city manager plan of government. Instead the people of any community would be given the right to determine the form of government they preferred. It is reasonably certain that had the bill been passed the people of Chicago would have reacted favorably in the referendum which would naturally follow. This would mean eventually smashing the democratic machine in Chicago. In view of these facts we can only speculate as to why 72 of the people's representatives voted against the measure.

INTEREST IN the city manager plan has been growing steadily. With various civic groups taking up the cry, it seems the fight for a city manager in Chicago has just begun. It is probably significant that the bill was defeated by only a small majority. In connection with the vote on the bill it might be mentioned that one representative stated: "I am against this bill. It aims to do away with representative government and tries to concentrate all local powers within the hands of a few individuals." In answer to the accusation one may quote Mr. C. A. Dykstra, who until recently was the city manager of Cincinnati, once said all there is to say, in one sentence. "The purpose of this form of government is to serve no private or party interests and to have no fear."

NEARLY 10,000,000 PEOPLE in 467 cities in the United States are governed by a city manager. To say that the city manager plan is simple, easily understood, eliminates responsibility, and centralizes responsibility is merely saying just so many words. But—when one is confronted with some of the improvements and benefits which various cities have received because of it—then one becomes convinced.

ALTHOUGH MUCH is said about the city manager plan, very few people know its fundamentals. The main features of this form of government is a council—usually of nine members—who are elected on a non-

Oldenburger to Leave for Year

Mathematician Will Join Research Group

Dr. Rufus Oldenburger of the mathematics department has been awarded a research grant by the Institute for Advanced Study at Princeton University for the purpose of carrying on investigations in the theory of functions at that Institute during the next academic year. He will be on leave from Armour for that period.

The Institute for Advanced Study is the highest educational institution in the world. It was founded about four years ago in line with the ideals outlined in Dr. Simon Flexner's book on American universities. There are no classes, grades, or degrees. All people associated with the Institute have doctor's degrees. The six permanent professors lecture only four or five times a week on the average. The other professors each lecture a few times a year on researches.

Plan to Increase Scope

At the present time the Institute has only one department, mathematics, but it plans to branch out into other fields. There are six professors, each chosen because he is probably the best in his field. They are Albert Einstein, mathematical physicist; Marston Morse, analyst; Oswald Veblen, geometer; Hermann Weyl, algebraist; J. W. Alexander, topologist, and John von Neumann, at the present time geometer. Of these John von Neumann is the youngest, being only 34 years old. He is considered by mathematicians to be probably the most brilliant young mathematician in the world.

Work on Critical Point Theory

Oldenburger and Morse will collaborate in work on algebraic problems which arise in critical point theory. This theory is concerned with the study of functions at points at which all first partial derivatives of the function vanish. It is hoped that the theory will yield the solution of the problem of finding a mathematical orbit which fits that of the moon. Dean Birkhoff of Harvard, leading authority in the world on dynamical systems, obtained a solution of the problem, but it was found that the moon traveled in a direction opposite to that predicted. Dr. Oldenburger will also collaborate with Professor Morse in publishing a memoir on recent results in critical point theory.

Opens New Mathematical Field

Dr. Oldenburger is noted for opening a new field of mathematics by developing an original approach in the theory of functions of several variables (called higher dimensional matrices). He is the first mathematician to find non-trivial applications of higher dimensional determinants. By means of this approach important properties of polynomials have been proved that could not have been proved otherwise. His publications include several papers which have appeared in the "Annals of Mathematics," the "Bulletin of the American Mathematical Society," the "American Journal of Mathematics," the "Duke Mathematical Journal," and the "American Mathematical Monthly." These journals are the competitive journals in America devoted to mathematical papers: competitive in the sense that papers are accepted for publication only if approved by "referees" who are prominent mathematicians whose identity is kept secret from the contributors. A paper by Dr. Oldenburger has appeared in the "Tohoku Mathematical Journal," published in Japan.

partisan ballot. The council elects a mayor from one of its own members. The mayor acts as a more or less "ceremonial figure." The city manager is also selected by the council. He appoints departmental heads (subject of course to civil service requirements) and supervises activities in general—just as any executive would.

THIS THEN is the system, and under it tremendous savings have been made. Avoidance of overlapping bureaus, centralization of activities, and unification of the accounting system are some of its advantages. But we here in Chicago cannot have them—just yet. We must be content with our politicians of whom it has proudly been said: "They are the best money can buy."

Dr. Glenn Frank Will Speak at Alumni Banquet May 25

Dr. Glenn Frank, former president of the University of Wisconsin, will be the speaker of the evening at the Alumni Banquet, which is to be held at the Medinah Athletic Club, Tuesday evening, May 25, at 6:30 o'clock. Mr. James Cunningham, president of the board of trustees, Dean H. T. Heald, and Dr. W. E. Hotchkiss, president of Armour, will also speak.

A crowd of over 400 alumni, faculty, and trustees is anticipated for the affair. The music will be furnished by the Armour Glee Club and orchestra, one hundred strong.

Seasonal Idea Put into Cycle's Pages

This year's *Cycle* will see a marked change in organization of the embodied material. In contrast to previous editions, the matter will not be grouped as "Seniors, Faculty, Fraternities," but will group these various activities according to seasons.

The fall season section will contain information about those events and persons which were most prominent during that season. The freshmen, being new to the school, will of course rate mention in this section. As all hands are turned to studies during this period, the faculty is also included.

Honoraries in Winter Section

Winter sports and activities will be in the winter section. Further, honorary fraternities are active in this season and will be placed in this section of the *Cycle*.

As spring is famed for Junior Week, the juniors are to be included under spring activities. Graduation activities, also occurring in the spring, entitle the seniors to a place in this portion of the year book. In this manner all other activities will be grouped in the new cycle.

Use Superimposed Photographs

The pages dividing the various sections will consist of photomelange. These are pages in which various photographs are superimposed, one above the other so as to produce a photographic effect of that season.

Colors are also to be used on the cover of this year's *Cycle*. A small circle divided into sectors with a pair of dividers emanating from them will be the distinguishing mark on the cover. This design will be reproduced in an enlarged form on the title page and in a reduced form in the lower right hand corner of every other page. Four-color printing is to be used throughout, and, according to P. M. Martin, editor, this year's edition will be easily comparable to that of other years.

Junior Week—

(Continued from page one)

according to the contestant's ability to perform better or worse than a definite fixed standard.

Alumni Banquet Thursday

Thursday's events will be concluded with an alumni banquet conducted by the Armour Tech Student Association at the Union League Club.

Friday will be Circus Day and will feature a continuous round of activities. The greased-pole event open only to juniors and seniors will no doubt prove popular. The contestants will attempt to scale the greased pinnacle atop which will be placed bids to the Junior Informal. Following this will be the strong-man and pie-eating contests, open only to juniors and seniors. Representatives from each of the departments will compete in these two events.

The most anticipated event insofar as the lower classmen are concerned is the freshman-sophomore rush taking place at 3:30 on the athletic field. In this competition the freshmen and sophomores line up on opposite sides of the field with sand and straw bags placed in the middle. At the sound of the whistle the two sides rush to the center and attempt to return with the bags. Encouraged by newly organized strength the lower freshmen will attempt to avenge the humiliations of the past semester.

Junior Week will be climaxed with the Junior Spring Informal to be held at 9:30 at the Medinah Country Club.

The students are urged to cooperate in the administration of Junior Week by observing the definite schedule of classes and events that has been released by the office.

Musical Clubs—

(Continued from page one)

Ark, and his animals; "Liebestraum", featuring Adolph Rune and his violin, and George Danforth at the piano.

The Orchestra has spent much time and energy in preparation for this concert. In honor of Coronation Day, its specialty for the evening will be the rendition of three movements from "London Suite" by Eric Coats. This is a new publication that has gained sudden popularity on the two continents. The Glee Club, not to be outdone in the plans for Coronation Day, will sing "Land of Hope and Glory," a mighty number written by Sir Edgar Elgar and played for the first time when King Edward VII of England was crowned. This selection will be sung and played a great deal during the next few days by musical organizations all over the world.

A quartet composed of the senior violinists of the orchestra will be a feature of the Spring Concert program by playing Mendelssohn's heart-rending "On Wings of Song".

Chicago's Jubilee to Be Theme of Coming 'Engineer' Publication

The next issue of the *Armour Engineer* will be distributed about May 20. A special effort is being made to produce a notable issue, because it is to be published in conjunction with the commemoration of the centennial jubilee of Chicago's charter. The entire issue will have the development of Chicago as its motif.

Photographs of the first mayor, Mayor Ogden, and the present mayor, Mayor Kelly, will open the issue. A large number of articles by the foremost authorities will show the various aspects of Chicago's development.

To Review Chicago's History

Mr. Shattuck, director of the Chicago Historical Society, will give a short resume of Chicago's history. The publicity director of the Chicago Association of Commerce, Mr. Ashley, will write on Chicago as an industrial center. Mr. Kunis, a member of the same group, has commerce as his subject. Transportation will be taken up by Mr. Rutter of the Chicago Journal of Commerce, and finance will be the subject of Mr. Harvey Hill, vice-president of the Chicago Board of Trade.

Discuss Art and Architecture

Besides the commercial development, the development of art will be treated very fully. Mr. Brown, Director of Recreation of the South Park Board, will write on recreation. A competent authority, Daniel Catton Rick, Associate Curator of Painting at the Art Institute of Chicago, will write on art and architecture. "The Seven Wonders of Chicago" will be the interesting topic of Miss Fitzgerald, a feature editor of the Chicago Tribune. Eugene Stinson, music critic of the Chicago Daily News, will write on music, and education will be the topic of the Education Editor of the Chicago Daily News, John Lally. Finally a brief history of Armour Institute of Technology will be given by the head of the English department, Prof. Walter Hendricks.

The edition will be profusely illustrated, containing over one hundred photographs of Armour and surrounding Chicago. Due to the large number of articles, the magazine will be large, being over eighty pages in length. Since it is being sent to the alumni, and all students receive a copy, the publication is large, over 22,000 copies being necessary to fulfill these requirements.

Soph Class to Give Smoker Gratis During the Summer

Plans are under way for a unique sophomore smoker, to take place in the latter part of July. All men of the class of '39 will be invited and it is expected that many men who started with the present sophomore class and have been forced to drop out of school will attend the smoker.

The sophomore co-op students also are invited. This will mark the first real attempt by full-time students to unite with the co-op students and with men who have left school.

Junior Chemical's Inspection Trip Leaves Lasting Scents Impression

It comes in here, the cow goes round—smash—crash—crunch—crack—smash—crash—plunk, and the hash comes out!

"I, Jaroslav Danek, do hereby solemnly swear to conscientiously fulfill my oath never to look another steak in the eye as long as I live—or I hope to buy my slide-rule arm!" "Amen, Hallelujah!" chorused a bleary-eyed group of junior chemists in reverent tones as they reached the gate of Armour and Company and Scents, Inc.

Plant Shows Strength

This inspection trip through Chicago's "Hell Hole of the South" was Prof. Hougen's answer to the demands for an educational visit to some strongly active plant. In short, it was an inspection trip to end all inspection trips. The group was taken through the laboratories, and other places of interest, odor, and color by a group of amused scientists under the leadership of Dr. Fisher.

The group first received a lesson in mashing under the able tutelage of a 60-cow power mechanical masher which smashed up cows into confetti with a single wallop of its cast-iron mitt. Here they learned that hamburgers are made—not accumulated.

Fallen Are Revived

Next, the group entered the pharmaceutical department where they thrilled at the gory sight of huge vats filled with fresh blood. This blood is used for serums, albumen dressings and for nauseating visitors. It was definitely a red-letter day for the juniors.

Stopping only to pick up a few fallen chemicals here and there—the plant was characterized by a persistently and rather offensive odor—

the group continued their trek through miles of hot air tunnel driers, vacuum driers, jaw-bones, hoovers, and doo-dads until they reached a building in which pills were being bottled by young ladies immaculately dressed in white. The group stayed here for quite some time. John Masin developed a sudden sickness and suggested that perhaps "some of those pills . . ." After dragging him out, the group left for home. At the door each of the schmiars was presented with a souvenir two-pound box of Armour's fertilizer. Perhaps you may see some being converted into "Zephyr du Hephry" perfume at the organic chemistry exhibit tonight. Science is a wonderful thing . . .

Honoraries Celebrate at Dance Last Week

Members of the ten honoraries, the faculty, and their friends made up the 120 couples who danced to the melodious music of Pierson Thal and his orchestra at the Interhonorary Dance last Friday night. Novel entertainment, supplied by the honorary pledges, provided a pleasant interlude.

The programs introduced a distinctive note. They were made of celluloid with the symbols of the ten honoraries pressed on the front cover. M. H. Beckman, assisted by P. R. Schultz and W. A. Chapin, maneuvered this social event to its successful conclusion. The fraternities represented were: Tau Beta Pi, Tau Sigma, Chi Epsilon, Eta Kappa Nu, Lambda, Upsilon, Pi Nu Epsilon, and Honor A.

Western Electric TELEPHONE APPARATUS

Western Electric TRAIN DISPATCHING EQUIPMENT

Western Electric TALKING PICTURE EQUIPMENT

Western Electric TELEPHONE CABLE

Western Electric POLICE RADIO

Western Electric ELECTRICAL STETHOSCOPE

Western Electric PROGRAM SOUND SYSTEM

Western Electric AUDIOMETER

Western Electric BROADCASTING EQUIPMENT

Western Electric MARINE RADIO TELEPHONE

Western Electric HEARING AIDS

Western Electric AVIATION RADIO TELEPHONE

Western Electric HEARING AIDS

It's all around you

In this busy age, things made by Western Electric appear on all sides. For in addition to its primary function as manufacturer, purchaser and distributor for the Bell Telephone System, Western Electric produces apparatus to meet almost every sound-transmission need. That is why Western Electric is called "the leader in sound-transmission."

Manufacturing Plants at Chicago, Ill., Kearny, N. J., and Baltimore, Md.

