



By Paul Schultz

THE ECCENTRICITIES of the modern world are most vividly shown by reactions to major events. The recent Morro Castle disaster aroused such a clamor that the public is still conscious of the event. A government inquiry was held and Congress considered new navigation laws, yet the public does not see those things which are many times more disastrous but which lie immediately before them. In the last one hundred years there have been 76,000 deaths due to marine disasters throughout the world, while in the United States alone in the past three years there have been 96,300 deaths due to motor vehicle accidents.

LAST YEAR the toll reached a new peak: 36,000 people were killed and nearly a million injured in 882,000 personal injury accidents. Nothing in history ever approached this figure except for war and rare outbreaks of pestilence. The growing size of this figure and the seemingly unceasing parade of accidents has become a problem which must be met by the modern public. The figures compiled by the Travelers Insurance Company show a surprising number of causes. The most unusual of these is the major factor, *excessive speed*. The cars are better than the drivers. As a body the public has shown that it does not possess the character or the intelligence to safely operate the mechanical contrivances set at its disposal.

THE FACTS SHOW some startling truisms. Most serious accidents occur when driving conditions are most favorable. Dry roads, rather than those slippery with ice and rain, are the scenes of the greatest disasters. Straight, smooth highways, not city streets, are most dangerous. Good cars, with good brakes, not dilapidated machines, are most often involved. And most surprising of all, sober drivers, not drunken men and women, are chiefly responsible. While the use of intoxicants is a growing factor, it is not yet one of the chief causes. Last year 3.16% of the drivers involved in accidents were said to be under the influence of alcohol.

THE SOLUTION to this problem does not yet seem to be within our grasp. Compulsory Automobile Liability has not been successful. The licensing of drivers has worked fairly well, but does not seem to be the ultimate remedy. Engineering has eliminated much by improving roads and eliminating many crossings, yet the problem remains. Whatever the remedy, decent, intelligent people must be protected from the fool.

## Scholarship Awards Offered by Armour

Ten one-year scholarships for the school year 1935-36 are to be awarded to male graduates of 1935 from accredited public or private high schools. The value of the scholarships is \$300, tuition for one year.

They will be awarded on the basis of competitive examinations, consideration of personality, scholastic record and extra-curricular activities in high school, and general fitness. The examinations will be in mathematics, chemistry, and physics. The mathematics examination will be in algebra, and will include problems in factoring, fractions, exponents, and linear and quadratic equations. The student may answer the questions in either chemistry or physics, or both. The candidate's ability in English will be determined from an interview, and from certain selected questions on the written examination which will be three hours long, and will begin at 9:00 a. m. on May 25. The candidate must present himself for a personal interview by May 22. Appointments will be made for interviews with students outside Chicago and suburbs.

## Branch of S.P.E.E. to Be Organized

Representatives of Armour, Illinois, Purdue, and Rose Polytechnic Institute will meet at Purdue next Saturday, April 6, to organize an Illinois and Indiana section of the Society for Promotion of Engineering Education. These four schools are members of the national association of the society.

Dean C. C. Williams of Iowa State, the national president of S. P. E. E., will attend the meeting; a few members of the faculties of Lewis Institute and the engineering school of Northwestern will be present. Other persons interested in engineering education are expected to attend. During the morning meeting there will be the organization of the section, adoption of a constitution, election of officers, and speeches. Judge Sveinbjorn Johnson of the University of Illinois will give an address on "The Engineer and the Public Service"; Professor J. O. Draffin of the University of Illinois will speak on "Laboratory Instruction in Engineering Education"; and Professor H. P. Dutton of Armour will speak on "Training in Economics for Engineers."

Several group discussions will compose the afternoon session. There will be a group for each of the following discussion questions: the teaching of chemical engineering, the development of inventive ability, the place of electronics in the electrical engineering curriculum, model testing, dimensional analysis, hydraulic similitude, and the teaching of soil mechanics, and English for engineering students.

The committee for organization of the Illinois-Indiana section of the Society is composed of M. L. Enger, Illinois; J. B. Finnegan, Armour; H. T. Heald, Armour; H. H. Jordan, Illinois; O. A. Leutwiler, Illinois; H. O. Moench, Rose; J. C. Peebles, Armour; and R. B. Wiley, Purdue.

## W. S. E. To Hear Talk on Patent Procedure

Every engineer and mechanically inclined man has at some time had an idea which he believed could be used practically. Many, through their lack of knowledge of patent laws, have lost their right to their ideas or inventions, and thus have been deprived of the wealth and fame that was possibly due them.

A patent must be restrictive, but not so restrictive as to limit the possibilities of further expanding the usefulness of the invention. A patent is invalid if it contains details or diagrams which tend to make the patent details ambiguous. As the life of a patent is but seventeen years, it is often advantageous to prolong the life of the patent as much as possible, and thus expand its commercial possibilities.

Since a knowledge of patent procedure and laws is essential for the ambitious engineer, it will prove advantageous to attend the meeting of the junior branch of the W. S. E. on Thursday, April 4. Mr. B. A. Schroeder, who is an acknowledged authority on patent laws and procedures, will be the speaker.

## Armour Rifle Team Calls for New Men

With its membership growing rapidly, the Armour Tech Rifle Club is now in the midst of a general cleaning and painting of the rifle range and club room. Tables are being put in the club rooms for the members who bring their lunch. The Club room will also be used for informal gatherings and card games.

The officers of the club urge all men interested to come and make application on April 4, at 12:30 or any time between 2 and 5, in the range, second entrance, Chapin Hall. New men are vitally needed for the team, as most of the present men are graduating this June. A special appeal is made to men who have had some experience in other schools or clubs.

## TO REVISE METHOD OF AWARDING POST GRADUATE DEGREES

### Candidates Must Have Four Years Practice In Engineering

#### STRICT REQUIREMENTS

At the meeting of the Faculty Council on Friday, March 29, the Committee on Graduate Courses submitted a revised procedure for the award of professional degrees, which was voted upon and accepted by those present. The changes involved will increase the difficulty of obtaining post scholastic degrees and will tend to raise the dignity of such a degree.

The professional degree of Mechanical Engineer (M. E.), Electrical Engineer (E. E.), Civil Engineer (C. E.), Chemical Engineer (Ch. E.), and Fire Protection Engineer (F. P. E.) may be conferred upon graduates of Armour Institute of Technology as post scholastic degrees in recognition of professional ability and achievement.

**Four Years Experience Required**  
An applicant for admission to candidacy for one of these degrees shall have been engaged for at least four years in the practice of engineering, at least one year of which must have been in a position of substantial responsibility. The possession of an earned advanced degree from an institution of recognized standing may reduce the time required to be spent in engineering practice. Collegiate teaching of engineering may be regarded as such practice. No graduate residence or examination shall be required for these degrees.

After admission to candidacy for a professional degree, a thesis on some phase of the candidate's professional experience will be submitted. Three copies of the thesis must be deposited with the Dean not later than May first of that year. After the thesis has been approved and the required fees have been paid, the name of the candidate will be certified by the President to the Board of Trustees.

**Written Application Necessary**  
An applicant for a professional degree will submit to the Dean prior to December 1 of the current academic year, a written application stating the degree desired; containing evidence of his professional experience; and lastly, proposing a thesis topic  
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## To Take Photographs of Faculty Members

Individual pictures for the *Cycle* will be taken on Thursday of all new faculty members and of any other professors who desire more recent photographs than those used in the 1934 Cycle. Officers of the Administration are requested to be photographed at this time also.

Sittings will be made in one of the rooms off of the Assembly Hall from 11:00 to 3:00 this Thursday, April 4.

Members of the Architectural Department and others who find it impossible to meet this schedule may be photographed at the Marshall Studios, 140 N. State Street, during the next week.

## A.I.E.E. Smoker to Be on Thursday Evening

A smoker to be held Thursday evening, April 4, at the Phi Pi Phi house was announced at the weekly meeting of the A. I. E. E. last Friday.

After calling the meeting to order, President Higgins proceeded to read a section from the pamphlet issued by the national A. I. E. E. that pertains to the awarding of prizes for the best papers submitted to, and published by the A. I. E. E. magazine, *The Electrical Engineer*.

## A. S. M. E. Plans Three Big Events

Within the next three weeks, the Armour branch of A. S. M. E. will sponsor three major events: an address by Mr. Ralph E. Flanders, president of the national American Society of Mechanical Engineers, an inspection trip to Milwaukee, and participation in the Third Annual Midwest A. S. M. E. Student Branch Conference.

### To Inspect Auto Plant

Last Friday, at a business meeting of the student branch, plans were discussed for the Milwaukee trip, which is to be made about the middle of April. The date is tentatively set for April 10. About ninety students are expected to make the trip. These men, the junior and senior mechanicals and the senior electricals, will visit the A. O. Smith Company, manufacturers of automobile frames, and the Allis Chalmers Co., manufacturers of heavy machinery.

A committee, of which W. W. Henning is chairman, was appointed to arrange details. Students who will drive are asked to give their names and car capacity to Henning. The expense, which should not exceed \$1.00 per person, will be shared by the passengers. The group will leave early in the morning and meet in Milwaukee at 9 a. m.

### General Assembly for Flanders

The entire student body will hear Mr. Flanders, newly elected president of the A. S. M. E., when he speaks at a general assembly on Wednesday, April 17, at 10:30 a. m.

The next event will be the participation in the Third Annual A. S. M. E. Student Branch Conference to be held in the Allerton Hotel, April 29-30, 1935. Technical chats, addresses by prominent speakers, inspection trips, and banquets will be the high lights of the conference.

The technical sessions will occur on both mornings at 9:30 o'clock, followed by luncheons at noon in which outstanding lecturers will give addresses and awards will be given to winning student papers. In the afternoons there will be inspection trips and in the evenings there will be open forums for the purpose of discussions.

## A.I.Ch.E. Arranges Interesting Program

Three interesting lectures are to be presented within the next month through the efforts of the A. I. Ch. E. Dr. Balke of the Pasterel Products Company will talk on the properties of tantalum alloys, Mr. Nash of the Nekoosa Paper Company will lecture on paper, and Mr. F. W. Maynard of the National Lead Company will give a talk accompanied by moving pictures. The dates of these subjects will be announced later.

### THIS WEEK

Tuesday, April 2 to Monday, April 8

**Tuesday**  
Meeting Tech News Sports Staff; News Office; 12:20.  
State Microscopical Society; Acad. Nat. Science; Clark and Center; 8 P. M.  
Orchestra Practice; Assem. Hall; 5 P. M.

**Wednesday**  
Chemicals' Inspection Trip; 2 P. M.

**Thursday**  
German Club; F. Mission; 10:30 A. M.  
Faculty Pictures; Assem. Hall; 11 A. M.-3 P. M.  
Glee Club Practice; Assem. Hall; 5 P. M.

**Friday**  
Math Club; Sci. Hall; 10:30 A. M.  
Society Meetings; 10:30 A. M.  
Boxing Meet; Duncan Y; 7:30 P. M.

**Saturday**  
S. P. E. E. Meeting; Purdue University.

## SOCIAL CHAIRMEN AND DEAN HEALD DISCUSS POSSIBILITIES OF NOVEL ALL-CLASS DANCE

Cooperation Would Allow Selection of Better Orchestra and Ballroom with Lower Price of Bids

### IDEA GAINS FAVOR OF PROFESSORS

There will be a meeting of all members of the sports staff of the Armour Tech News today at 12:30, in the News offices.

## Cast Is Complete For Spring Play

Tryouts have been completed for "The Red Robe," and a cast of eighteen men and six women has been selected. They are as follows:

Mouzon ..... Sydney Miner  
Vagret ..... John Styrsicy  
Etchepare ..... Michael Pantone  
Mondoubleau ..... Herman Ross  
LaBouze ..... Sidney Kreiman  
Bunerat ..... Albert Schreiber  
Attorney General ..... Orville Hampton  
Clerk ..... Richard Weissman  
Judge of Assizes ..... Al Kulpak  
Delorme ..... Stanley Bernstein  
Ardeuil ..... Raymond Kliphardt  
Bridet ..... Norton Gerber  
Officer ..... Robert Clarke  
Butler ..... Robert Lundberg  
Placat ..... Ernest Hoyer  
Caretaker ..... Maurice Alexander  
Policeman ..... Francis Popper  
Policeman ..... Hugh Bisbee  
Yanetta ..... Mary Russo  
Etchepare's Mother ..... Gladys Rorem  
Madame Bunerat ..... Beatrice Palucci  
Bertha ..... Marie Lubas  
Catalena ..... Gertrude Pass

Mrs. Gladys Rorem, who will play the part of Etchepare's mother is the wife of Dr. Rufus Rorem, formerly connected with the University of Chicago and now professor of business accounting at Rosewood.

All the women in the play have had some experience in dramatics, some of them belonging to the Hull House dramatic group.

Rehearsal has started in earnest on one of the acts. At first each act is to be rehearsed separately.

Those characters appearing in only one or two acts will be able to spend time learning their lines, while the other acts are being rehearsed.

### Debate Place of Presentation

Concerning the choice of an auditorium for presenting "The Red Robe," a decision has not yet been made. The Players will hold a vote to learn the opinion of the student body on the question of a location. The main issue is to decide whether the play should be given here at Armour, or at some downtown theater.

The Armour Players have been increased by many new potential  
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## Students Appointed as Honor Marshals

In recognition of their high scholastic standing, Student Honor Marshals have been selected to assist with the functions of Commencement Week, June 9 to June 13. The selection consists of six juniors, six sophomores, and two freshmen.

Announcement of appointments have been mailed to C. P. Boberg, F. D. Cotterman, A. Goldsmith, W. B. Graupner, R. R. Johnson, J. F. Kahles, W. M. Kiefer, J. O. Larson, W. R. Marshall, P. M. Martin, H. P. Milleville, S. M. Miner, P. Morrison, and P. R. Schultz.

The six juniors and six sophomores held the first six places in their respective classes. Although there were five freshmen tied for first place, only two were selected. The two appointed were chosen at random from the five.

The Honor Marshals will wear caps and gowns and assist at the Baccalaureate and Commencement exercises.

Possibilities for a dance to be sponsored jointly by all four classes were discussed last Friday in a conference between Dean Heald and the four social chairmen.

This would be the first time in the history of Armour that any such plans have been considered. After hearing the chairmen present their case, Dean Heald heartily approved of their decision to cooperate with each other on this affair. Several professors also sanctioned the move.

Among the many advantages in such a social function is the absence of departmental politics. Also, the combined resources of the four classes will enable the committees to obtain a much better ballroom and orchestra, and at the same time bring the price of bids within reach of all.

A meeting is being called today of the four social chairmen, S. Healy of the Freshman class, O. Tomei, sophomore chairman, D. Graham of the juniors, and W. Trudelle, senior chairman. General discussion for the promotion of this unprecedented social event will then be taken up, and the selection of an orchestra and ballroom, as well as the programs and bids, will be decided upon.

## Complex Numbers Subject of Talk

Complex numbers, the abstruse quantities which freshman try in vain to graph in the real plane, are to be discussed at the next meeting of the Mathematics Club on Friday morning at 10:30 in Science Hall. The speaker, Herman Bauermeister, is a sophomore student in chemical engineering.

The last talk on nomographs was thought so useful that twenty-five students have asked for copies of the talk given by Mr. William A. Gorsline. The pamphlets which were sold at cost by Mr. Gorsline gave the simplified theory of nomographs and methods of setting up new forms as for laboratory experiments.

Other talks are to be given in the future on modern geometry and statistics.

## Issue New Pamphlet For Junior Engineers

So that the engineers of the future may find the road to their profession easier, and so that they may be able to have a more accurate appraisal of themselves and their qualifications for the engineering profession, the Engineers Council for Professional Development has published a pamphlet called "Suggestions for Junior Engineers."

The pamphlet, which was introduced a few weeks ago at an A. S. M. E. meeting, is published for the benefit of the junior engineer. However, a serious engineering student will find it invaluable, as it serves as a check and a standard.

The major portion of the pamphlet consists of questions which are to be answered after careful appraisal of one's self. The questions are on the candidate's present occupation, characteristics, personality, physical ability, etc.

To further help the junior, the pamphlet contains a reading list consisting of books on natural science, philosophy, economics, and other cultural subjects.

Considering the fact that the pamphlet costs but five cents and can be had by leaving an order with the school librarian, every student should have one.