

## Photography display in student union brings praise and votes of students

•An exhibit of the beautiful photographs has been displayed in room 2E of the Student Union for the last few days. Many students have already attended this exhibition and have cast their votes for the three best pictures.

•Thursday, March 5, this photographic exhibit will be closed, and the ballots will be counted. The results will be announced in next week's TECHNOLOGY NEWS. If you have not already done so, hurry to the Ping-Pong room in the Student Union Building and cast your vote!

•This exhibition is sponsored by the Armour Eye, club for photo-enthusiasts at IIT. Among the pictures are portraits, landscapes, candid shots, still life, and many other types of photography. There is also a special exhibit by George Jarmy, a senior mechanical.

•There will be a meeting of all camera club members this Friday morning in the club rooms.

## LIST CONTENTS OF 'ENGINEER'

•Reports on the progress in the development of new buildings for the Armour campus will be reviewed in the March issue of the ILLINOIS TECH ENGINEER. "Auto Driving as a Problem in Mechanics" will be examined by Profesor Mangold Warren L. Decater, co-op student, will discuss "Porcelain Enamel," while Miss K. Judkins will relate information on two new co-op courses to be offered at Armour.

•"Modern Systems of Tabulating and Analyzing Data" by E. C. Schroedel of the International Business Mechanics Inc., "Training of Personnel" by Alfred Cardall of the Science Research Associates; and a alumnus section, which in part is devoted to Brigadier-General Bolte, Armour graduate and chief of staff of the AEF in Great Britain, are articles to be found in the next issue of the ENGINEER.

## CLEVELAND-MURRAY MYSTERY PROJECT NEARS COMPLETION

•Since August, 1940, Dr. F. F. Cleveland of the physics department and Dr. M. J. Murray of the chemistry department have been conducting a research project behind the mysterious door in the Physics Building marked "Spectroscopic Laboratory." Last week they announced that their project, which is called an infra-red spectrometer, would be completed within the coming month. Through the use of their apparatus, which will be the only perfected model in the country, chemical analyses that have been difficult or impossible to carry out up to now will be possible in the very near future.

•The method of analysis is based upon the fact that the vibration frequencies of the atoms that make up a molecule vary in different compounds. The greatest value of this instrument will be realized after the vibration frequencies of a large number of compounds have been determined by means of it. A substance of unknown composition can then be subjected to the same pro-

## DR. GIRWITH TO ENGLISH STAFF

•Dr. Allen Girwith, A.B., Ph.D., an English instructor, has been added to the faculty of the Illinois Institute of Technology. He was born November 28, 1912 in Union City, N.J. He received his A.B. at Columbia University in 1934 where he majored in philosophy as a graduate student for two years.

•Dr. Girwith is a member of the honorary fraternity Phi Beta Kappa, held the President's University Scholarship in Philosophy, and the Sage Fellowship in Philosophy. While at Cornell (1936-37), he won the graduate essay prize in philosophy; a copy of his essay was placed in permanent deposit in the Cornell library.

•Some of his publications are: "Experience and the Non-Mathematical in the Cartesian Method," in the "General History of Ideas" April '41; "The Cartesian Circle in Philosophical Review" July '41; and "Clearness and Distinctness in Descartes in Philosophy" Oct. '41. His forthcoming book on Medieval Political Philosophy will soon be published by Columbia University. The title of the book has not yet been selected.

•Dr. Girwith's chief hobby is playing the violin; he was concert master in the Columbia University orchestra.

## AIEE plans Victory Dance Friday, March 6

•Friday evening, March 6, the American Institute of Electrical Engineers will hold a Victory Dance in the Student Union Auditorium. The AIEE social committee has engaged a six-piece dance orchestra to play at the affair.

•Admission is free to all AIEE members and only fifty cents a bid to non-members. Refreshments will be served at no extra cost.

cess and the elements in it can be determined by finding a similarity between its vibration frequency and the known frequencies of different elements.

•The rate at which the atoms in a certain compound are vibrating is determined by placing a sample of the compound in front of an ordinary heater which gives off heat of all wave lengths. After the heat rays have passed through the sample they hit a rotating prism which separates the beams of different wave lengths and sends one after another through a narrow slit. The rays then hit a thermopile, which transforms the heat rays into electrical currents. A galvanometer indicates how much electricity comes from the thermopile, thereby telling what wave lengths of heat were absorbed by the sample. The last step is to reflect the rays to a photographic paper moving at constant speed. The bands produced on the plate correspond to the frequency of the vibrating atoms in the molecule.

## Alpha Chi Sigma plans dinner

•At a meeting of Alpha Chi Sigma, national professional chemical fraternity, last Wednesday, activities for the coming months were planned. A picture of the group for the yearbook was taken before the meeting.

•The social committee, under the direction of Peter Blasco, announced a social to be held sometime around March 13. Also, a progressive dinner among the members is scheduled. In an effort to begin pledging activities early, Robert Kirk presented a list of prominent non-member chemicals. This list includes sophomores, juniors, and graduate students.

## ERRATUM

Sincere apologies are hereby extended to MR. Clarke Crawford who has contributed greatly to the organization of Illinois Tech's new Sigma Xi chapter. In a previous issue, credit was erroneously given to MRS. C. Crawford.

## WEST-SIDE MEN AIDING DEFENSE

•In the past few months the campus on the west side has seen a great deal of activity in keeping with the "all out for defense" program, a type of progress that is the result of cooperation on the part of many individuals. Among this group are Mr. H. Minkler of the technical drawing department and Mr. Roy Greenwood, who has for twenty-seven years been owner and manager of Greenwood's Book store which has served the Lewis campus for some forty odd years.

•During the past few weeks Mr. Minkler has been busy remodeling a large cabinet into an illuminated display case which will, when completed, contain a set of equipment needed by the draftsmen and designers that are undergoing courses in drawing and in defense training on the Lewis campus. Mr. Minkler has installed special "lumline" lighting tubes and hopes to complete the installation of a glass front for this display cabinet within a short time.

•Mr. Greenwood will draw from his large stock of drafting supplies and equipment, a cross-section of those pieces of equipment that are needed for the exacting work that the engineers and draftsmen must produce. Included in this display will be a complete drawing set, french curves, drawing and lettering angles, various types of pencils and lettering pens, and many other articles needed in the technical drawing field. These are to be mounted on the backing of the cabinet, whose construction will be supervised by Mr. Greenwood. The completion of this project will make available to all students of the west campus a complete story, in display form, of that equipment which is so vital in the "firstest with the mostest" defense policy of our government.

## SINCERE SOPHS SEEK TO FRUCTIFY FEARFUL FROSH

### Prof. Penn elected secretary of ISE

•Professor H. Penn of the civil engineering department at Illinois Institute was elected to the position of secretary in the Surveying and Planning Section of the Illinois Society of Engineers at their fifty-seventh annual meeting, held from January 29 to 31 in East St. Louis.

•The discussion, Professor Penn related, was largely around the present problems of securing materials and government priorities.

•A banquet was held January 30 for all the engineers present at which the guest speaker, the Hon. Corley Smith, British Vice-Consul, gave a talk on "The Evacuation of France and the Bombing of London."

## Barnes, Hartman take flight course

•Illinois Tech is represented by two of the seventeen Chicago cadets enrolled for primary flight training at Randolph Field, Texas. They are Richard M. Barnes, a 1941 Lewis graduate, and John W. Hartman, a 1940 science graduate of the Armour College.

•Barnes, in addition to being an Illinois Tech graduate, attended the University of Illinois. Hartman, after leaving school, worked at airplane drafting and railroad rail tseting.

•After completing basic training at Randolph Field, cadets are eligible to enter advanced schools, from which they graduate second lieutenants.

## Carter talks on marine insurance

•Mr. Carter of the Commercial Union Insurance company addressed the Fire Protection Society on "Inland Marine Insurance," Friday, February 13.

•Robert Hall, Harold Hoffman, Raymond Smith and Charles Wallace were pledged to the Salamander, Fire Protection Honorary Society. The neophytes were introduced by Professor J. B. Finnegan, who stated the qualities necessary for selection.

•Mr. Carter briefly discussed the history of Inland Marine insurance, then dealt with protection, types and forms of policies.

•"All marine insurance has to do with insuring property while it is being transported. It covers nearly everything, all the way from the horse and wagon to the motor trucks," stated the speaker. The difficulties arising from rating, premium writing, and classifying risks were brought out by Mr. Carter.

•Abuses resulting from the sudden growth of inland marine insurance were controlled by the Fire Casualty Marine Agreement, said the lecturer. Mr. Carter concluded his talk by citing the opportunities in the growing field of inland marine insurance.

•Comes a time again when the freshman class is extended the privilege of wearing green caps as tokens of their place in Illinois Tech society. It has become a tradition that in the spring of the year a young man's fancy turns to thoughts of love. And so, the upper classmen of this institution, particularly the sophomores, seek to show their genuine affection for their misunderstood frosh friends.

•The significance of this time-honored custom becomes apparent to the freshmen especially if they fail to sustain the fashion of the times. In other words, they're gonna get it if they don't wear 'em. But, lapsing again into the vine-covered past of yesteryear, many of us older men remember the beauty and style of our own green heads. Perhaps the very reason that trees and other plants turn green in the spring is to compete with the budding frosh.

•St. Patrick's Day, March 17, is set aside for the unveiling of the green chapeaus upon the craniums of the greenhor—(OOPS) freshmen. All the first year men are expected to wear said toppers until the class rush is held in April or May. Enforcement of this privilege is placed in the hands of the sophomores who are liable to exact fines in the form of clothing denials, such as pants.

## SCIENCE GROUP EXPANDS IN ILL.

•Recent formation at Urbana of a collegiate section of the Illinois State Academy of Science is announced by the Academy President, Dr. T. H. Frison, Chief of the Illinois Natural History Survey. At the present time, similar sections are maintained in only two other states, Texas and Kansas.

•The new section was organized, Dr. Frison says, to bridge the gap between the Junior Academy of Science and the Senior Academy. It will give college students in all parts of Illinois an opportunity to present results of their research and to discuss their common science problems.

•Action taken Saturday (Feb. 21) by the Academy council, meeting in Urbana, authorized formation of the new section under the leadership of Dr. H. R. Wanless, University of Illinois geologist. Preliminary plans call for three divisions, built around the biological, physical, and earth sciences, with the first paper-reading sessions held May 8 and 9 on the University of Illinois campus.

•Titles of papers for the collegiate section must be submitted by March 7, states Dr. Wanless, who adds that membership in the collegiate section is limited to undergraduates.

•All meetings of the Academy of Science will be held on the University of Illinois campus, Dr. Frison says. He anticipates that the important place of science in national defense will strike the keynote of many of the sectional meetings as well as the general sessions.