

Armour 'Eye' To Initiate Season With Contest

Armour's camera fiends are planning an exciting and eventful program for the new semester according to Peter Stanley, president of the Armour Eye. In the past few years the camera club has been steadily growing, with the acquisition of new space, the construction of studio and dark rooms, and the gradual addition of new equipment.

The members have strived to make themselves known throughout Chicago as a ranking photographic organization. Many have won awards for their work in various contests. Last year the student A.S.M.E. photo contest was won by an Armour Eye member who was in competition with students from ten middle west colleges.

Starting off the new semester, a salon and contest is to be held Friday evening Feb. 23rd at 7:30. This event is open to all Armour students, day school and co-op. The prints must be entered at the club by noon of the same day and must be mounted on 16"x20" salon cardboard mounts. An interesting program featuring an illustrated talk is promised.

The Armour Eye takes pleasure in announcing Professor W. W. Colvert as its new faculty advisor succeeding Prof. C. E. Hammett who is on leave from the Institute. Club treasurer of 1938, George Raymond, who has been away on a year's vacation, was re-elected to his office last week. At the same time, Bob Zelin achieved the office of Vice President of the club.

Chem Speaker Gives Methods Talk on Glass

Following its policy of obtaining men of outstanding ability both in industry and lecturing, the A.I.Ch.E. presented, last Wednesday afternoon, Mr. M. T. Thompson, Sales Manager of Industrial Equipment for the Corning Glass company. Mr. Thompson gave his talk on the use, development and manufacture of industrial glass equipment. His discussion gave an insight into the deeper workings and little known uses of glass and glass equipment in industry. In conjunction with his talk, Mr. Thompson presented three sound reel movies, some of which were in color. These pictures were a graphic portrayal of portions of the succeeding talk.

Reels Shown

The first reel depicted the manufacture of Pyrex glass. The elements of this type of glass were shown and explained and the actual process of manufacture was displayed from charging to the final tapping of the furnace.

The second reel illustrated the uses and methods of blowing this type of glass. This was more relevant to topics familiar to those in attendance since most of the students were chemicals and all of them have had use for this type of equipment.

The third reel was more in the field of experimentation. The investigation of stresses and strains in glass equipment was shown by the use of a polariscope. This is one of the advantages of using and designing glass equipment. It is possible through experimentation of this sort to design glass equipment of greater strength and with a more pictorial knowledge of the possible effects of stress or strain on the equipment.

After the reels Mr. Thompson gave a talk which covered recent developments and advancements in the field. The new glass piping and the details of its installation and fitting along with its particular advantages was one of the subjects discussed. The speaker explained the method of fostering of glass parts or "windows" to such portions as "bombs" or evaporators by means of spraying metal on the glass parts and then welding or soldering the piece to its adjoining metal part. The newly developed method of manufacturing precision machined glass parts to replace metal parts in some equipment and machinery was also discussed. Mr. Thompson concluded his talk with an open discussion during which he answered questions of his listeners.

S.P.E.E. Group Holds Meeting of Instructors

Last Saturday, February 17, a committee of the S.P.E.E. held their regular meeting within the Armour portals. This executive committee of the Engineering Drawing Division is composed of famous men in their field, among them Professor Thomas E. French of Ohio State University, the author of our Freshman Drawing textbook. The purpose of this meeting was to discuss engineering drawing instruction.

At two o'clock a round table discussion was conducted in the lounge. R. N. Bryan of the International Harvester Company and H. D. Campbell of J. Sterling Morton High School led the discussion. Following this discussion the meeting adjourned and many of those present attended a dinner held for them at the Chicago Engineer's Club.

Automatic Factory Studied at S.A.M. Meeting Feb. 16th

At the meeting of the Society for the Advancement of Management, last Friday, movies followed by a vigorous discussion, was the program. The film presented was one of a pictorial trip through the semi-automatic plant of A. O. Smith Company. In this factory body frames are completely molded, formed and holes are drilled mechanically. At only two points are laborers needed. There the only functions they perform are to feed strips to the machinery for forming and to place the cross bars in the approximately correct place. After leaving this assembly line, the group of parts are run through a "nailing" machine which aligns the parts and then pneumatically forces rivets into the holes. In the next group of machines the aggregate is then completely riveted.

Supplements Movie

Following the presentation of the movie, Prof. B. E. Goetz opened the discussion by pointing out that viewed over a long period of time it is frequently not advisable to have an automatic plant because of the lack of flexibility in such a setup. Whenever it becomes necessary to alter the product, it is also necessary to rebuild the machinery. This machinery is needed not only to perform the new operations, but also to adapt the remaining machinery to prevent interference with the altered portions of the product. Whenever, new and improved ways of accomplishing an object are found, it means virtually rebuilding the entire plant, rerouting and retiming the old machinery. Consequently, an automatic factory is feasible, only where the volume of the business is such that the initial and installation costs of the equipment can be paid for before the product, its design, or the process become obsolete.

NEWS BANQUET—

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have been stepped up to re-write men. In the Business Department, Richard Harper will serve as Advertising Manager, and Melvin Johnson will have charge of circulation. Art Minwegen is the Assistant Feature Editor.

After an exceptionally delicious dinner, Tom Hunter, acting as Master of Ceremonies, began the business of the evening by announcing the new appointments. As the new Managing Board was made public, each was asked to come forward to the head table at which sat the old board, and Professor Hendricks, Professor Goetz, and Professor Finnegan, special guests. Peter Woods was then formally presented with the many keys to the news office and the men were congratulated. As the names of the remainder of the new staff were read, each rose briefly in acknowledgement. Following this, a report on the financial status of the ARMOUR TECH NEWS was delivered by Frank Slavin, outgoing Business Manager.

Topping off the dinner, Professor Hendricks addressed the men in his well-known informal, friendly manner, regaling them frequently into bursts of laughter with drolleries seasoned by his long experience with the Armour Tech News.

Faculty Club Chooses Kelly For President

Armour's own Student Union was the site of a bit of merriment by the faculty of the Institute last Jan. 27, the occasion being the annual Faculty Banquet and election of officers of the Faculty club.

Social gatherings of the faculty are quite few during the course of the year, but this situation is not easy to remedy due to many obvious reasons such as home duties, night classes and so on. But when our worthy superiors do lay aside the enrollment book and homework sheets, they do a elegant job socially. Evidence of this was quite apparent at the last meeting of the faculty club last Jan. 27.

The events of the evening began with a banquet in the cafe of the Student Union, the food was made more digestible by the music of Don Charlton and his boys. Following the dinner, a five minute talk was given by Dean Tebbals, who praised the fine work done in the past years by Prof. R. P. Perry, in purchasing and distributing tobacco for the faculty. As a personal token of his esteem for this fine work, Dean Tebbals presented Prof. Perry with two fine pipes. Prof. Moreton then amused the men with pictures of his last trip South, after which bridge and friendly discussion were the topics.

The officers of the faculty club elected at the meeting were W. E. Kelly, president; R. H. Manley, first vice president; A. S. Hansen, second vice president; S. F. Bibb, secretary; and A. W. Sear, treasurer.

COOP BANQUET—

(Continued from page one)

will have occasion to long remember his speech.

Following Mr. Leverone's address, Mr. Harold Vagtborg, Director of the Research Foundation, presented motion pictures of the Snow Cruiser. These films covered several stages of the machine's construction, the shake-down trip from Chicago to Boston, and scenes enroute to the Panama Canal. This was the first public showing of the complete film history of the cruiser.

Thus ended the program of the most significant and successful Co-op function ever held. Informal discussion of mutual problems between employers and Co-ops ensued.

Arrangements for the banquet were made by Dave Whittingham, Bob Kourek, Leo Hemphill, Eugene Colombe, Frank Heidenreich, and Dr. Carl Anderson, Co-op sponsor. Prof. Lease, Dr. Tibbals, and Mr. Allison generously gave of their time and services.

Physics Profs Talk to A.P.S.

A paper, Infra-Red Absorption Spectrum of Methylphenyl-Acetylene, by Forrest F. Cleveland and M. J. Murray, was presented at the meeting of the American Physical Society, one of the affiliated organizations of the American Association for the Advancement of Science, in Columbus, Ohio, a few weeks ago. Infra-red absorption spectra are obtained by passing the infra-red (heat) rays from an electrically heated filament through the substance, then through a prism, to the junction of a thermopile which is connected to a sensitive galvanometer. Absorption of a certain wave length is indicated by a sudden decrease in the galvanometer deflection. A tabulation of the wave lengths at which such absorption occurs gives the so-called infra-red absorption spectrum of the substance. Since no two different molecules have identical absorption spectra (just as no two different persons have the same fingerprints), the method may be roughly described as "fingerprinting" molecules.

Molecules may also be "fingerprinted" by use of Raman spectra. The Raman spectrum of a substance is obtained by passing light of a definite wave length (color) through the substance and examining the light scattered at right angles to the incident beam by means of a spectrograph.

CO-OP NEWS

By H. F. Krantz

Participation in extra curricular activities by the co-ops is no longer an abandoned hope. Each year more and more co-ops realize the necessity of such activities, with the result that the number of co-ops in various organizations is steadily increasing. From these students, leaders in several activities have been chosen. The co-captain of the swimming team, president of the Dance Club, and Co-op club are examples.

Conclusive proof that Mike Larinoff, 5A, is not what he appears to be, has finally been established—black on white. To the unobserving student, Mike is a studious, liberal-minded man with a persuasive personality. But no longer can he bluff the boys. His downfall was the grave mistake of submitting his handwriting for analysis at the recent boat show. The result was made public: In the opinion of experts (and they should know) Mike is a Playboy.

"Minute Man" Kruse! No, not because he is one of those born every minute, but because he k.o.'d his first Golden Gloves opponent in one minute of the first round. In his second bout, however, he and misfortune were in

the ring and the coach was out for supper. The result: Kruse (a senior) couldn't wiggle in against a left handed fighter and lost the bout on a decision.

Boxers aren't the only men who knock 'em down. The 4A bowlers are following suit and spending all their spare time (and some school time) in the bowling alleys. Fischer mowed 'em down when he set a new high of 16 points for the first five frames. His gutter ball is perfect.

Once again the sophs are the first co-ops to organize a basketball team. Eight men are ready and anxious to meet the first opponent. Barnabee, the manager, and McMacken, Croak, Piepenbrink, Johnson, McCleneghan, Jobul, and Kolon, make up the team.

Cibera, 4A, has the jitters. Every time a tensile test bar snaps in the mech lab, Cibera leaves the floor as though the load on the bar were suddenly applied vertically to him.

Forces acting in a common direction are plentiful in the mechanics section of soph Physics. And why shouldn't they be, with the co-eds next door?

Judging from the rush for front seats when the sophs cycle pictures were taken, the class would do well on any man's gridiron.

For comical comments concerning the quite comical aquatic congregation at Chicago Teachers college contest, as told by a comical commentator, call on co-captain Hutchings, 5A.

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