

Prof. Copeland Talks Tuesday

Resumption of the graduate lecture series will take place a week from today. The first speaker on the series will be Dr. Paul L. Copeland, of the department of physics. His subject is to be the "Anode Effect as a Function of the Temperature."

Described as a variation in the contact voltage of the plate of a vacuum tube, work on this topic has been carried out by Dr. Copeland during the last spring and summer. It is of value in the field of vacuum tube design, and is an aid to explaining why the amplification factor of a tube falls when it heats up.

Electron Action

Described briefly, the action is one of electrons coming from the cathode of the tube, travelling to the plate, and encountering charged particles of a migratory nature which have come from the cathode as ions of a rare earth. Electrons coming from the filament must then pass through the layer of ions, a layer of Oxygen one molecule thick, and then into the Nickel plate. Temperature changes make differences in the effect of the layers on the plate.

As was the practice last year the lectures are to be given by men at the Institute for the benefit of the graduate students. This does not mean, however, that only graduates are permitted to attend, undergraduates being free to come if they wish. Announcement of the time and place will be made at a later date.

Col. Goldsmith Talks on Fire Protection Job

Beginning his talk with enumeration of the types of concerns that employ fire protection engineers, Colonel Goldsmith lectured to an interested group of students on "Fire Protection as a Profession." Not only do fire insurance companies employ a staff of fire protection engineers, but so do many large industrial concerns who have learned the value of men, who with practical fire protection knowledge, can save them money yearly. For example Du Pont's safety department concerns itself a great deal with fire protection, a great deal of consideration being given to the safety of its employees as well as its machinery.

Need for Work

To demonstrate the need of good fire protection and how it saves money, Colonel Goldsmith recounted one of his experiences while doing fire protection work with the army. When the first World War started \$100,000,000 was spent on fire protection, the actual work being done by inexperienced men, and yet the loss to the government was less than \$1,000. Many other illustrations were given by Col. Goldsmith on the value of this type of work, and how industry was beginning to appreciate it.

In the first place, Col. Goldsmith said, a good education is necessary in F. P. E. and in the opinion of Col. Goldsmith a F. P. E. can become almost any type of engineer he wants to because his curriculum covers most of the engineering fields. The most important thing, however, is to choose a field that you feel you are really interested in, work hard, and by doing so you will find that your work is a satisfaction to you, provided of course that the financial reimbursements are sufficient. This led of course to the types of jobs, and how they pay.

Department Pays Well

"Municipal fire department work is a field which until recent years has hardly been touched by technically trained men," said the colonel. These jobs pay well, they are becoming practically exclusively civil service, and Col. Goldsmith as a member of the board of examiners, Deputy Fire Marshall and Chief Fire Marshall firmly stated that political pull meant absolutely nothing. This was doubly emphasized. Because of the good pay, and pensions over 50% of the New York Fire Protection Bureau are technical school graduates.

Summing up, Goldsmith repeated that the primary requisite was a genuine interest in one's work, the ability to make friends in different engineering fields, and the desire to do a job well.

Hendricks and Hayakawa Act As Sponsors

Amateur drama at Armour added new strength to its organizations last week when Mr. Walter Hendricks was appointed faculty sponsor for the Players Guild and Mr. S. I. Hayakawa became faculty advisor.

The Guild occupies an important spot here at Armour as the theatrical honor society, an organization within the Players group. Members are selected from those who have taken part commendably in past dramatic undertakings. Mr. Hendricks, who is Professor of English and head of the Department of Language and Literature, was the originator of the Armour Players many years ago. For about five years he served as director of our legitimates. Increased responsibilities in the English Department, however, forced Mr. Hendricks to relinquish this task into other hands. His appointment as sponsor for the Guild, thus, reunites two old friends.

Faculty Advisor

Mr. Hayakawa, a recent addition to the Department of English faculty, has had considerable experience in dramatic societies. During the years 1930-2, he was a member of Theater Lab, a theatrical group at the University of Wisconsin, whose function was to experiment with the newest and most modern plays. In 1936, while at the same University, Dr. Hayakawa directed T. S. Eliot's "Murder in the Cathedral" for the St. Francis House Players. Meeting with considerable success, this production was repeated by demand in several neighboring small towns.

Although neither man will take active part in the directing of dramatic activities this year, their experience and judgment is available whenever in demand. Consultation with the players and expert criticism near the end of rehearsals will serve as the finishing touches. Meanwhile, rehearsals of "Brother Rat," the recent nation-wide hit success which is now being undertaken at Armour, are progressing rapidly.

Mechanicals Visit Milwaukee Plants

Last Monday, Nov. 13, the Junior and Senior Mechanical and 4A Coop classes, were invited to inspect Allis Chalmers and A. O. Smith engineering plants in West Allis, Wisconsin. More than 100 students took advantage of this opportunity, along with Professor Roesch, who was responsible for this trip.

For many, this was the first trip through a large scale production plant. Allis Chalmers' specializes in producing all types of machinery, water turbines, electric transformers, light and heavy boiler equipment, and tractors. Of great interest to all the students was the 40 by 16 ft. boring machine, which is the largest in the Western World. Following the tour, the boys were guests of this same company at a luncheon.

Visit A. O. Smith

The group went next to inspect the A. O. Smith company, which specializes in welding and frame manufacture. At the time, an order for Pontiac automobile frames was being filled. All were quite impressed by the fact that 8000 finished frames were produced in one day. Of great interest were the 40 ft. long by 12 ft. in diameter glass lined steel tanks which were being finished for various brewing concerns.

UNION BOARD—

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room. It is possible that a nominal charge will be made to cover the cost of balls and paddles. It is hoped that the room and tables will be ready for use immediately after Christmas vacation.

If any student has suggestions or criticisms pertinent to these or other matters, the board will appreciate the statement of such suggestions or proposals either in writing or verbally to one of the board members.

To date the board consists of "Sonny" Weissman as manager of the Union; D. Sunde, Senior representative; C. McAleer, Junior rep.; E. Huxhold, Sophomore rep.; R. Malmist, Freshman; and A. Heidenreich.

Arx News

The new crop of autos having been hashed over, the junior structural design class will perhaps discuss ice-boating at Monday's bull session . . . Mr. Griffs permitting . . . Reinke went to Madison for the Wisconsin game . . . Can we discount the fact that a certain gal from Oshkosh was there . . . We hear that last week Pasiak was an excellent example of the day after the night before.

Weese still worn out from that Cornell house party . . . Seils met Theresa by taking her picture with his bigger and better camera . . . Cokes . . . Andy and Miss Mueller . . . Mandel and . . . Well after all, she's married.

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THANKSGIVING—

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eth, or we will be late for the giving of thanks."

After acknowledging the introductions, we are about to speak further when a horrible piercing, high yodeling yell is heard, accompanied by a zip, zip, zip of arrows swishing by in the air, landing with violent thrusts into tree trunks about us. "Oh Lord-eth, Indians!" moans John as he sees what is beginning to happen. We are greatly outnumbered. They trapeth us like rabbits in a snare. Oh, what willeth poor Priscilla do if I don't cometh back."

Who Loveth Who?

"Whatteth do you mean, what willeth poor Priscilla do?" thunders the older man. "It is I whom she loveth."

"Hey, this is no timeth (they have us doing it now) for argument!" we exclaim. "Hop in and let's get going."

"Going, how?" question the two men. "Get in," we yell again, and give the V-8 the gas. The car leaps forward over the roughest terrain a car ever travelled, letting out a great roar and clouds of smoke. The yelling stops abruptly as a score of Indians appear out of the brush behind us. Their jaws drop like they have anchors on them, their bows fall out of their hands, and they stand flat-footed with awe (aw-w-w). Big

. . . Opinion is that we must have some of this P. Palmar cake more often.

Flashes . . . From what BEAUTY QUEEN JUDGE is MICHAELSEN still trying to regain a futile one dollar bribe? . . . What Tech News cartoonist is losing his job to the creator of SLUG McTECHAWK.

Wochrl addresses his letters to Evelyn of Lake Forest Country Club . . . Dodge between cultural readings of Plato will spend the holidays with Mavis . . . Whenever you see Coyle with portable radio . . . that means only . . . off to Lake Forest.

Sophs are playing a new game . . . A dime to the man who can make the paper roll stick on the roof truss three times. Ready, aim, throw . . . Confusion over drawing log cabin perspective brought about the formation of "Rafter Drafters Inc." . . . Moore, president of same.

The coming thanksgiving layoff will enable the juniors to solve the impossible problem of housing four people on one acre . . . The frosh will attempt isometrics of one-sided nuts . . . And I do mean nuts.

Specs.

Chief Running Bare stands choking in the trail, the exhaust fumes still remaining in a cloud about his head.

Coming to a crude trail, hardly wide enough for a horse, but on more smooth ground, we proceed with fair ease to the small stockade that is the home base for the pilgrims. "My, you certainly fixeth those Indians," says the Captain, nodding his head approvingly. "Yes," we answer, "we've felt that way about Indians every since they beat the Sox in that crucial series last summer. And then those Cincinnati Reds (kins) beating out the Cubs!"

Hot Time in the Old Town

In the town square a huge fire is burning merrily, and a mammoth table is sagging from one end to the other with yams, cranberries, Indian corn, wild fruit, smoked venison, turkeys, potatoes, piles of dark bread, and caviar. Miles and John dump their burdens of food by the fire where a handful of Puritan woman in quaint clothes are preparing the meal. Men and children are going from one log cabin to another, talking or playing. There is a hum of excitement in the air. A beautiful gal that could easily grace any tooth paste ad or occupy Petty's cartoons comes down a path. A broad blush comes over the face of Miles, and John gets equally red. Rushing to their rescue (?) we ask her if we may escort her to the feast.

By this time all the pilgrims have gathered at the festive board, and after a short prayer, lasting a half hour or so, the punitans dive in. John just sits there next to Priscilla with his mouth open. Miles, being an army man, yells "well all right, well all right. Dig, dig, dig!" and does the same. In the distance war whoops are heard, but Parson Jeremiah Turnbuckle just tunes the radio from the program "Tonto and the Lone Ranger" to some red hot swing being played by Bob Crosby. "Ah, tisseth the thing to sootheth the nerves," explains the parson.

The crucial moment arrives when Miles whispers to Priscilla, "Miss Priscilla, John desireth some of that pumpkin pie." The words we have been waiting to hear at last come when she answers "Why don't you speak for yourself, John?"

Egad! Where Are We?

"Cut!" yells the director. "Lights, sound, camera, all through for the day. Nice work today, Miss Bombard. And you too, Mr. Cable. I'm sure this great epic of the lives of our pilgrim fathers, "Tranksgiving at Crumb Elbow" or "One Week Less to Live," is going to be a gigantic success.

Gad! exclaim. All the time we have been wandering around on the lot of Betmore Golden Mares Pictures, Inc. This is too much. With a whoop, yell and holler, we make a mighty leap into the Ford and steam into the night.



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