

Armour Tech News

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Evening School Offers Degrees

Progressive Expansion in the Armour Institute Evening Division has reached a new high with the announcement that, beginning next semester, seven year courses leading to a B.S. degree in engineering will be available. Inspired by the great interest in this type of curriculum at previous registration, carefully planned courses in mechanical, electrical, civil, and chemical engineering are to be offered. Registration for the new courses will take place evenings during the week of January 29 through Friday, February 2, until four p.m. on Saturday.

The Institute is able to profit, in evening courses of this type, from the experience of Eastern schools. Night School degree work has been done in New York University to a considerable extent. It has been determined that one-fifth of all students registering for night classes take their degree. When the number of cases in which men are transferred to other cities or become satisfied with less than a degree in their education is taken into consideration, this record does not compare unfavorably with many full time engineering colleges. As part of the development of the plan that marks the transition of Armour Tech and Lewis Tech into the Illinois Institute of Technology, this new type of curriculum is expected to play no insignificant role.

High School Students Benefitted
Such schooling is of particular attraction to the young high school graduate unable to take straight college work and who is desirous of attaining a degree in a technical field. These individuals have been handicapped until now by having as the only alternative to day studies, night school work not designed to offer complete and continuous instruction in any one engineering field. The plan is sufficiently flexible that a man may take work at a rate governed by his own capacity.

The program offered at night is identical in quality and content with that offered in the day school. Hour
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'Instrumentation' Is Topic of Two Lecture Courses

Next semester two new courses, both with the same name, "Control through Instrumentation," will be given. The course presented by the undergraduate division will be taught by Prof. James Thompson of the Physics department, and the one connected with the graduate school will be conducted by Prof. Harry McCormack, of the chemical engineering department. This study was added to the curricula after several requests for the course were brought to attention of the administration.

The undergraduate course will cover the design, construction and maintenance of precise instruments. However, the more advanced subject will deal more with plant installation and actual control of unit processes. Approximately half of the time available for lecturing will be given to men, experts in their field, who will be selected from prominent companies and institutions. To start the series Dr. Kolpsteig, president of Central Scientific Co. will address the opening meeting on "Instruments of Precision."

Contrary to common opinion, the control of processing is more prevalent in the chemical industry than in the mechanical goods concerns. For instance, in the dyeing of textiles, it is necessary that the hydrogen ion concentration of the bath must be carefully controlled and is read by means of a glass electrode; also the temperature must be controlled by the admission of steam or cold water. This is regulated by means of either of several pyrometric installations. These and similar subjects will be covered by an instructor whose position as the technical editor of "Equipment Previews" renders him capable of adequately teaching the course.

Give Elective In Television

So progressive is a course being offered next semester in the field of electrical engineering, that there is no textbook available that will cover the material to be presented. In the newest engineering field of all—television—the class will be given a three hour credit. Two hours a week will be spent in lectures by Earle L. Kent, the instructor, while the third hour will be devoted to work in the laboratory. The students will build up their own equivalent of a textbook from Mr. Kent's lectures and from their laboratory observations. The senior "juicers" who take this elective course will have the added experience of helping to design and construct the laboratory equipment to be used in the future.

Course Extensive
In the one semester the course will cover mechanical and electronic scanning, picture requirements, optics necessary to television, theory of video (sight) amplifiers, the theory of television, transmitters and receivers, general circuits, and present developments that may effect the future of the industry. Most of the lectures will be illustrated by experiments.

Two complete transmission and reception systems are now available for use by the group, one being a two-way television-telephone. The other system employs the first electronic scanner to be used or seen in the Chicago area. It is expected that a number of students will take advantage of this remarkable opportunity in a just-opening field.

Next Graduate Talk Features Prof. Thompson

A practical discussion on "Units and Dimensions" will be given by Professor James S. Thompson this Friday at 10:10 o'clock in the electrical lecture room. This talk, one of a series of graduate lectures, was moved up a week in order to eliminate the competition with final examinations and to allow interested undergraduates to attend.

Dr. Thompson will present the subject from the operational point of view. He will show the reason for the development of units, especially in the electrical field and will trace their development to modern industrial problems. In addition to tracing the derivation of some common units. Mr. Thompson will show the interrelation of a number of common electrical terms.

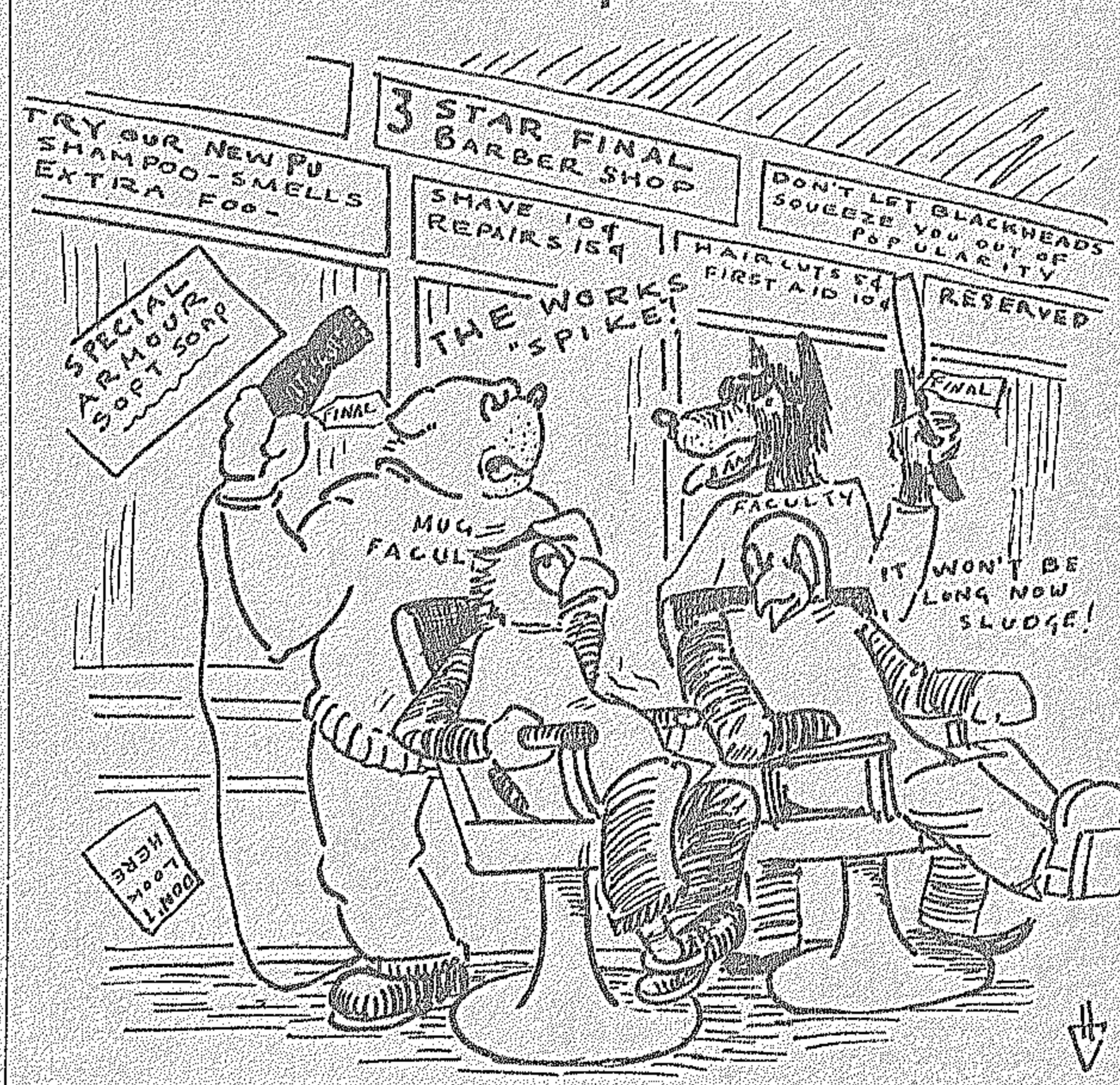
Quiz Book Rule To Be Altered

Resulting from an investigation made by a faculty committee on cribbing, all quiz books for the final examinations will be furnished by the school. Cribbing has not been at a high ebb, but what little there is, makes it necessary to instigate further precautions in order to insure the student body a fair grading on examinations.

It is for the benefit of the students that this move has been taken by the faculty members. All books will bear a marking for identification and will be handed out just previous to the exam.

In former finals, it has been possible for students to write light notes within the pages of the quiz books. It has been found that practices such as this are employed only by students who are not interested in the excellent opportunity for education, which is theirs at Armour. Perhaps they are successful in their attempt to foil the professor, but they are ruining their chances for eventual success in engineering, which profession has no room for a cheater.

It's A Clip Joint!



Armour Tech Student Association Budget by Board of Control For College Year 1939-40

Anticipated Income—	
Student Activity Fees	\$20,337
Estimated Expenses—	
Baseball	\$ 1,300
Basketball	1,400
Blankets	150
Boxing and Wrestling	500
Directors and Coaches	4,200
General Expenses	650
Golf	325
Intramural Sports	300
Musical Clubs	800
Rifle Club	300
Swimming Team	500
Tennis	600
Track	800
Tech Relays	700
Cycle	4,000
Engineer and Alumnus	2,100
	\$18,625
Estimated Reserve	1,712
	\$20,337

Fraternity Formal To Be Held Jan. 26

Coming as a climax to a hectic semester of school activities, the annual Intrafraternity Council's formal dance will be held on January 26 in the beautiful Empire Room of the Sovereign Hotel, located at 6200 Kenmore Avenue. Incidentally, January 26 is the evening of the last final examinations. The 65 to 70 couples expected to attend will sway to the music of Len Leighton and his orchestra.

The bids to the dance are to be placed on sale immediately, at \$3.50, by the committee consisting of Don Chariton, Delano Wessels, and Dick Larson. Beautifully designed, the bid is a parchment sheet with an inscription-bearing gold leaf insert.

McColley Elected Group Secretary

Armour was represented by Prof. Grant McColley at the annual meeting of the Modern Language Association at their recent meeting in New Orleans, during the Christmas holidays. Acting as the secretary of the meetings Mr. McColley was later elected as secretary of the society for the year 1940.

Business of the meeting concerned itself with the interrelations of science and literature since 1600. As a result of the discussions it was decided by a unanimous vote that science, and literature related to science, should have a greater place in the literary curricula. Such ideas are of particular use to a school such as Armour.

Announce New Math Courses

Dr. Ford has announced the presentation of two new courses in mathematics. Both courses—Mathematics 511, a study of Partial Differential Equations which will meet four days a week from 12-1, and Mathematics 509, on Analytical Mechanics presented on Tuesday and Friday evenings—necessitate as prerequisites a preliminary knowledge of differential equations. Mathematics 301, Armour's course of differential equations, is considered adequate preparation.

Instruction Part of Policy
Instruction in these phases of advanced mathematics is considered particularly appropriate in the light of Armour's present policy of expanding its graduate program and developing its pure Science curriculum. Dr. Calkin, eminent scholar from Harvard University and later from the Institute of Advanced Study at Princeton, will conduct the study in differential equations. It is expected that the many papers the professor has presented in this field will gain added significance in his coming exposition.

Dr. Sadowsky will start his course in Analytical Mechanics with an introductory treatment of the fundamental concepts of mechanics. The course will proceed to the study of the dynamics of a particle, including such topics as central forces, constrained motion, the generalized equations of Lagrange and the canonical equations of Hamilton. Professor Sadowsky, widely known as an authority in this field, studied and later taught at the famous German foundation, Technische Hochschule in Berlin.

A.T.S.A. Board Completes Budget; Most Appropriations Increased

Enrollment Begins Jan. 20, Announces Registrar's Office

In order to avoid some of the confusion and waiting on the regular registration days, February 1 and 2, all students who are reasonably sure of their programs for the next semester may register and pay their tuition and fees any day from Monday, January 15, to Saturday, January 20, inclusive. Instructors will be prepared to enroll students in classes on Saturday, January 20, from 9:00 to 12 o'clock, in accordance with the following instructions.

Make out a tentative program in the Registrar's Office, fill in registration card and then pay your tuition and fees in Room 207. Return class enrollment card and a final program card to the Registrar's Office. Registration for classes will be done by departments, and this schedule is posted on the bulletin board. For courses not scheduled confer with the instructors.

For those who cannot take advantage of the above, the regular registrations days will be: for freshmen and new students, Thursday, February 1, and for sophomores, juniors, and seniors, Friday, February 2. The same procedure will be followed on these dates as for the earlier registration.

Faculty Begins Series of Talks To High Schools

Following a plan originally organized by Professor C. E. Paul, a group of Armour faculty members has been visiting the high schools of the city in order to publicize the Institute and its facilities. Professor J. B. Finnegan has taken charge of the group and has devised a schedule to include most of the schools in Chicago and surrounding towns.

Approximately fifty high-schools are visited each year, some of them two or three times. In most cases the institutions are approached on a special college day during which representatives of various colleges address small conference groups of students.

Armour's Research Foundation recently published a pamphlet on the Snow Cruiser, said pamphlet being distributed to all of the high-schools. A series of lectures on the Cruiser, sponsored by the Foundation, has been arranged. These lectures include slides and information concerning all phases of the huge-snow liner's construction.

More requests for speakers have poured into Professor Finnegan's office than is usual in the fall semester of school. This is attributed to the greatly increasing interest in Armour Institute. The speakers have reported that student interest at the schools that they have visited is very keen and the boys addressed have responded with exceedingly intelligent questions.

Requests for speakers have been or will be filled for most of the schools in Chicago and also in towns such as Rock Island, Barrington, and Kalamazoo. For out-of-town requests, it is the usual case to have a resident graduate of Armour speak to the group.

Last week Professor J. C. Pein spoke at Calumet, Mr. W. E. Kelly at Lindblom, and Mr. W. N. Setterberg at Tilden. During the forthcoming week Professor H. A. Giddings will visit Morgan Park, Prof. W. H. Seegrift will be at Wells and Mr. Billy Goetz is scheduled to address students at Harper high school.

The speakers have found that the "College Day" system of presenting Armour to the pupils is far more satisfactory than any other because the students are in a receptive mood for a collegiate speech.

Coaches and Teams Get Biggest Share

Information of vital interest to all of the student body was released by the A.T.S.A. Board following its meeting last Wednesday afternoon at which the new budget was brought up for consideration. Printed in the adjoining columns is the result of the labours by the budget committee.

Other Business Enacted

Other business of the meeting concerned the Father's and Son's banquet, standardization of the athletic awards, and the question of the amendments to the constitution which have not yet been enacted. Action is now being taken on all of these points. Work on the awarding of Honor Cycles was delegated to a committee of men to revise the present point system.

This year's budget represents the largest appropriations in the history of the A.T.S.A. Five items, the Cycle, Engineer, coaches' salaries, basketball, and baseball—total an even \$13,000 or exactly 65% of the total, while the other eleven items fill out the balance. It is to be noted that there is no mention of the funds used by the Tech News, as they come out of the A.T.S.A. automatically, no appropriation being necessary.

Budget Analyzed

In making up the budget all of the amounts are compared with those of the previous year and due consideration given to any changes which have occurred in any particular activity within the last year. Expansions of quarters, larger turnouts for teams and any new sports all call for increase. The giving of awards is based on the best judgment available for the predictions, the coaches of the sports, and the estimated number used to get the probable cost.

The item of reserve is made to establish a factor of safety to take care of any unforeseen expenses. Less than 10% has been allowed this year, but on the basis of past experience and the success of the former budget, this seems a wide enough margin.

Student Union to Fix Resting Room For Droopy Studes

Armour's Student Union Board decided last Tuesday to fix up a rest and quiet room for tired students on the third floor of the Student Union building in the room above the stage. In order to have the room in order before the week of final exams, work will be started in a few days, \$100 having been appropriated for the expenses of redecorating and furnishing it. Details such as soft lighting, window drapes, sound-proofing material for the floor and three neat, cloth covered cots with blankets and pillows have already been definitely decided upon, and other conveniences which may be suggested will be given consideration by the Board.

Union Acknowledges Donors

Considering a conspicuous spot in the Union building to be more suitable for Armour's World War Honor Role than its present place on the fifth floor of Main building, the Board also agreed to have it moved as soon as the most suitable spot can be chosen. Letters of appreciation were tendered to President Henry T. Heald for the collection of symphonic records which he donated to the Union for the radio-victrola, and to the Armour Tech News for the public address system which it gave and had installed in the auditorium.

Proving that Armour students catch on to good ideas, the ping-pong room in 2-W has become so popular since its innovation after the Christmas holiday that it is now necessary to sign out for its use, and it was decided by the Board to continue the charge of five cents a half-hour for the use of the ping-pong room and equipment, the money to be used to replace damaged balls and paddles.