



NEW COURSES IN SOCIAL SCIENCE TO BE OFFERED

Professor Carman G. Blough to Be Head of the Department

THREE NEW TEACHERS

Professor Carman G. Blough, formerly head of the Department of Accounting at the University of North Dakota, was appointed during the summer by President Hotchkiss to take charge of the new courses in Social Science which are introduced in the Armour curriculum this semester.

Professor Blough will be assisted in the new department by Dr. W. Bruce Locking of the University of Illinois, and A. M. Hillhouse of Northwestern University, who will serve as instructors, and by Henry P. Dutton, former Head of the Department of Industrial Management at Northwestern University, who will lecture in "Business Policy."

Man of Wide Experience
Professor Blough's experience leaves him particularly well equipped to organize and direct the work in business and social subjects. After taking his master's degree in Economics at the University of Wisconsin, he was associated for several years with the Wisconsin Tax Commission, directing preparation of the state budget for four years. During the last year he has been completing his work for the doctor's degree in the Economics department at Harvard University.

Instructors Locking and Hillhouse have both had several years of teaching experience in economics and associated subjects, and both come to Armour Institute with the highest recommendations. Mr. Dutton, in addition to his educational work at Northwestern University, has served as an industrial consultant with the Pullman Company and with Arthur Young & Co., and has been for a number of years associate editor of "Factory Management and Maintenance," a nationally distributed magazine.

Take Charge of New Courses
The new required courses which these men will teach are "Business and Engineering Problems" and "Social and Engineering Problems" in the freshman year, and "Business Policy" and "Public Policy" in the senior year.

These courses, according to the descriptive material in the Bulletin, are all planned "to give engineering students a necessary background for the duties they will be called upon to perform as members of a dynamic community and of a profession which touches practically all the activities of modern life. The work of the freshman year will serve as an introduction to Social Science, and that of the senior year will relate the engineering training which students will have had to the business and social setting in which their engineering work will be done."

Research, Testing Labs Coordinated

In order to better coordinate the facilities at Armour for research and testing, the Board of Trustees has placed the supervision of this work in the hands of Professor Joseph B. Finnegan. Professor Finnegan will continue his duties as head of the department of fire protection engineering.

It is expected that this move, by drawing the various laboratories and men closer together, will better serve the best interest of the persons, corporations, and associations who submit research or test projects as well as of the Institute and its faculty. The school will continue to encourage research projects in preference to routine and will avoid all competition with commercial testing laboratories.

DEPARTMENT HEAD



C. G. Blough

Awards Given at Alumni Reunion

Roy Carlstrom was awarded the second annual Senior Award by the Alumni Association at its semi-annual reunion June 2 at the Union League Club. The award was made in recognition of his undergraduate work.

At the same time, the Alumni Service Key was awarded to Harold Munday, '23 for his work in promotion of the Development Plan. The first Alumni Service Key was awarded to John J. Schommer at the big Alumni and Student Reunion last fall.

The principal address of the evening was made by Dr. Hotchkiss who explained the reasons for the changes in courses, temporary elimination of shops, and other steps in the translation into action of the theories of the development plan.

Willstatter Given Medal by A. C. S.

Dr. Richard Willstatter of Munich, Germany, world leader in the field of organic chemistry, was awarded the Willard Gibbs Medal of the American Chemical Society at a banquet held in the Stevens Hotel last Wednesday evening. The award was the outstanding feature of the American Chemical Society's World's Fair Convention which terminated Friday.

Is Nobel Prize Winner
Dr. Willstatter is famous for his outstanding investigations into the field of plant pigments particularly chlorophyll and those of the anthocyanin group. In 1915 he received the Nobel Prize in Chemistry for his work. Of the twenty-two Willard Gibbs medalists he is the fourth recipient who also has received a Nobel prize.

Large Attendance
Nearly 3200 chemists including four from foreign countries attended the meetings of the convention which commenced last Monday.

The convention program included an excursion trip along the lake shore in the steamer Theodore Roosevelt, a program in the Court of Honor of the Hall of Science at A Century of Progress, a golf tournament at the Evanston Golf Club, an outdoor supper, an entertainment at Northwestern University, as well as numerous group luncheons and dinners.

Ph. D. Degree Given To Professor Davis

The University of Chicago conferred upon Mr. Watson H. Davis the degree of Doctor of Philosophy in mathematics during the summer session. Doctor Davis finished his thesis last year and completed his studies during the recent summer session. The subject of his thesis was "Contributions to the Theory of Conjugate Nets."

Professors Teach and Haggard also attended the University of Chicago during the summer, taking advanced courses in mathematics.

Progress and a Responsibility

Armour Institute of Technology matriculated its first class in the year of the Columbian Exposition. Engineering science has achieved dazzling triumphs in the four decades that have since elapsed. It has multiplied the amenities of living and fashioned a society in which the luxuries of today are the necessities of tomorrow. It has held out to the humblest citizens immeasurable possibilities of comfort. But because technical advances have not been thoroughly consolidated, the anticipated social gains remain in many regards elusive and insecure.

Society is now trying to digest the meal which science has provided. Vast social, political, and economic experiments are being tried. Empires and governments are overturned. In some form or other, relations between government and business and the every day life of the citizen are being overhauled in nearly every country in the world. So closely has science tied mankind together that events in one part of the world react on every other part.

No one today can more than guess what kind of a society will emerge out of the present period of experiment and unrest, but whatever it is, its functioning is inconceivable without a high order of both creative and operative engineering talent. It will need to be a many-sided talent, a talent grounded in science and broad scholarship, a talent which can comprehend the engineer's work not as something standing alone, but as an essential part of an orderly and advancing civilization.

The next four decades, Armour's second forty years, will be roughly the time in which you men who are students today will be making your contribution to engineering and to living. It is the task of the faculty and of those to whose direction the Institute is entrusted to make available for you the best education we are able to provide, in order to help you in doing the work which will be expected of you as graduates of Armour. The course of study and all the work of the Institute is being organized and administered with a full sense of this responsibility.

W. E. Hotchkiss

Armour Represented at Madison Meeting

Dr. Hotchkiss and Professors Finnegan and Heald represented Armour Institute at a meeting of the administrative officers of engineering schools. The meeting was held in Madison, Wisconsin under the auspices of the Society for the Promotion of Engineering Education. During the four day session from Monday, July 2 to Thursday, July 5 Dr. Hotchkiss, Professor Finnegan, and Professor Heald were guests of the University of Wisconsin, living in the men's dormitory. Dr. Hotchkiss was one of the regular speakers at the conference.

Civil Honorary Group Initiates Six Seniors

Chi Epsilon, honorary civil engineering fraternity, initiated six men of the class of '33 at a smoker held just before the close of school in the Spring. They were N. E. Colburn, Jr., G. T. Korink, N. H. Kuehn, B. W. Laestadius, G. A. Nelson, and C. L. Shermer.

After the formal initiation, which was held in the chapter rooms in Chapin, the entire chapter, including the faculty members, had dinner at the Blackhawk and then attended a play at the Cort Theatre.

Armour Acts as Host to S. P. E. E. Meeting; Hotchkiss Gives Address

Armour Institute was host to six hundred members of the Society for the Promotion of Engineering Education during the week of June 26 to 30. This attendance represents the largest number ever to have assembled for an S. P. E. E. Convention. The first evening, Monday, June 26, the society council was entertained with a dinner at the Chicago Women's Club. At the same time a dinner and bridge for the wives of council members was in progress in an adjoining room. Tuesday evening Armour Institute was host for the society at a smoker in the Stevens Hotel. And Thursday evening, June 29, the annual dinner of the S. P. E. E. was held in the dining room of the Stevens.

Hotchkiss Welcomed Society
Dr. Hotchkiss delivered the opening address at the initial business session of the convention which occurred Tuesday morning of the convention week. In the sessions which followed present business conditions and their effect upon engineering education were much discussed. It was pointed out that due to the "depression" enrollment in the graduate schools of engineering colleges is on the upgrade while undergraduate enrollment has decreased considerably. It seems that students who have completed their undergraduate course,

finding no jobs, will skimp and get enough money somehow to continue their studies—preferring not to remain idle. However, fellows who have not yet entered college or who have secured only part of the undergraduate training generally do not think a completion of their education is worth the skimping and financial hair pulling which is quite often required. They prefer to make the best of a bad situation by optimistically (or otherwise) looking for a job.

Curiously enough, while figures from other engineering colleges indicate that this decrease in the number of undergraduate students is quite marked, Armour Institute last year was taxed to the limit of its capacity. In 1932 the freshman enrollment was greater than ever and this year applications for admission were also rejected for lack of room.

Employment Discussed
As regards the employment of engineers, members of the society were unanimous in expecting a sharp increase in demand as soon as conditions showed their anticipated upturn. It is essentially a process of

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DEVELOPMENT PLAN BEING PUT INTO OPERATION AS NEW SCHOOL YEAR STARTS

**Revision of Courses, Suspension of Shops,
Expansion of Graduate Work
Mark New Policy**

ALL FRESHMEN TO TAKE SAME SUBJECTS

A general assembly will be held for all freshmen at 10 o'clock tomorrow morning in the assembly hall, Mission building.

Registration For Frosh Made Easy

Predominant among the changes created by the administrative staff of Armour Institute recently, is the precise program inaugurated for registration of freshmen, the same taking place today.

The programs of the new students have been made out in advance, thereby eliminating the usual confusion encountered in the selection of instructors and hours. Before registration, the students are advised to fill out an enrollment card. These cards can be secured in the electrical laboratory, second floor south, Main building. Having secured a tuition bill from the place of enrollment, the bill should be taken to, and paid at the cashier's office, second floor north, Main building.

Upon receiving a receipt for the payment of tuition, the bearer should take it to the library where he will be assigned to a program card, and receive his library card. Those students having paid their tuition in advance, are requested to present their receipt in the library at once. Upon the completion of registration, further attendance is not required for the balance of the day.

Frosh Assembly
Tomorrow morning, at 10 o'clock, an assembly will be held for all freshmen in the auditorium, Mission building. Doctor Hotchkiss, president of Armour Institute will be the speaker for the occasion. At 11:00 a. m. group meetings of the freshmen will be held under the supervision of several upperclassmen. It is the duty of each of these upperclassmen to preside at a meeting of a small group of freshmen, to enumerate the various activities of the student body, and to answer any questions submitted by the freshmen.

Upperclassmen chosen to officiate at the freshman group meetings are as follows: seniors; C. Clarkson, N. E. Colburn, H. W. Davidson, R. A. Fleissner, L. Frateschi, I. A. Kolve, S. M. Lillis, and R. J. Plfum. Juniors; J. J. Ahern, and R. D. Armsbury.

Further events will take place during the next few days, such as the distribution of handbooks by the interfraternity council and the sale of green "pots" for the freshmen. Rush week will begin on Thursday, Sept. 28.

Freshmen Receive Ten Scholarships

Ten Chicagoland students have been awarded full freshman scholarships on the basis of their standings in the competitive examinations held last June. This system of scholarships superseded the previous arrangement by which a one year scholarship was offered to a representative of each Chicago high school.

The freshmen and their high schools are: Wm. A. Chafin of Lane Tech; A. C. Downing of Morgan Park; Norton Gerber of Lake View; Wm. B. Grawpner of Maine Township; Lorentz Johanson of Evanston; Paul M. Martin of Roosevelt; Norman McGuone of Mt. Carmel; Sidney M. Miner of Senn; Ed. N. Paulaitis of Calumet; and Paul R. Schultz of Onarga Military Academy.

The examination covered physics, chemistry, mathematics, English, history and civics.

The opening of classes tomorrow will mark the first day of operation under the plan of educational development which was adopted over a year ago, by the Board of Trustees of Armour Institute of Technology. Students who have had an opportunity to see the new General Information number of the Bulletin are familiar with the program which has been worked out in detail during the summer months, and which becomes effective in student schedules tomorrow.

Expansion of facilities for graduate work in all departments, integration of freshman studies, suspension of shop courses, and the introduction of new courses in social science subjects form the major part of the reorganization. Further revisions are found in the departments of English, physics, and mathematics, where some new material and new policies of instruction are being inaugurated.

The new graduate departments are offering a full year of instruction leading to the Master of Science degree in all the engineering departments, in architecture, and in general science. This extension is regarded as particularly important at this time, when many recent graduates are finding themselves unable to secure steady professional employment. Tuition for graduate instruction has been fixed at one-half the rate charged to undergraduates, in order that as many as possible of these recent graduates may take advantage of this opportunity to round out their training with an additional year of professional study.

Freshmen who are matriculating this week will all follow the same course of study throughout the entire school year, and will not be required to register for a particular department until the beginning of the sophomore year. This year's sophomores and juniors will carry on with the programs they had planned before the reorganization was effected. The administration has found that the freshman year was sufficiently alike in all departments to permit integration of the entire year's work. Furthermore, under the new system the student will have a better chance to become familiar with the character of engineering work before he selects a branch in which to specialize, so that his choice should be wiser.

The most progressive departure in the new program is the temporary suspension of shop-practice courses. "The administration does not underestimate the practical educational values embodied in the handling of materials and the operation of machinery," said President Hotchkiss in this connection, "but we feel very strongly that shops should be taught as laboratory rather than as manual training courses, and that the necessary changes can be made more easily if all shopwork is discontinued while reorganization is under way." It is expected that principles of industrial management will be included in the new shop curricula, Dr. Hotchkiss said.

The Social Science courses, under the direction of Professor Carman G. Blough, seek to associate the students' engineering work with the business and social background in which it will be carried on. "Business and Engineering Problems" and "Social and Engineering Problems" are the required freshman courses in the new department; and "Business Policy" and "Social Policy" will be required of all Seniors. The courses are planned to assist students in keeping up with rapid changes in

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