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# COLLEGE NOTES



## THE ENGINEERS' DANCE

Undoubtedly the biggest step towards the "getting together" and co-operation of the various engineering colleges, was taken when the general engineering dance was given, on the evening of March 28th at the Elks Home. The dance was limited to one hundred couples and was chaperoned by members of the engineering faculty. It was a decided success from every point of view. The proceeds from this dance were turned over to the furtherance of the publication of this magazine.

The idea of a general engineering society on the campus is still living with us all, and this dance was one of the many helps toward that end.

## MECHANICALS

Professor Marquis is still on leave of absence and is working with the United States Fuel Conservancy Board. His place on the teaching staff is being taken by Mr. A. I. Brown.

Arrangements are being made for the annual banquet of the Senior Class.

The Mechanicals made an excellent showing in Intramural basket-ball during the past season. They won the championship in the Inter-college League, defeated the Columbia Boarding Club, which was the leading team in the Boarding Club League, and were defeated by the Kappa Sigma Fraternity for school championship. The game with the Kappa Sigma team was a hard fought game, lasting overtime, and the Mechanicals were defeated by the close score of 14 to 12.

Among the interesting theses being run by the Seniors this year are: "Powdered Coal as Fuel," "Effect of Superheated Steam in a De Laval Impulse Turbine," "Test of Carburetors on Ford Motors" and "A Study of Carburetors."

Mr. Paul Bucher, a graduate of the class of 1918, is now an instructor in the department.

## CERAMICS

While the Ceramic Industry is recuperating from its depression suffered during the war, due to building restrictions, ceramic education goes on as usual under the general direction of Professor Arthur S. Watts, head of the department.

The war has decreased our numbers until there are but thirty-two men enrolled at present in

Ceramics. The Mining Engineering Department is the only one having fewer men enrolled than we.

Due to these conditions, the student branch of the American Ceramic Society held no meetings during the first semester of the present year.

The semi-monthly meetings were resumed at the beginning of the present semester. H. D. Callahan was elected president, and H. E. Davis, secretary-treasurer. Efforts are always made to have good speakers for these meetings, and much good is derived from their talks.

Several of our own men are still in service. These and those who were released too late to re-enter school this semester, we hope to have back when school opens next September. Several men returned this semester after service in the army.

The department has undergone a general rearrangement during the last year and a half. The Senior laboratory has been moved to the second floor of Lord Hall. The offices of the instructional force are now on the third floor. Here, as in the halls, are many interesting and instructive exhibits of ceramic ware and research trials.

Recently a second set of nineteen volumes of the Transactions of the American Ceramic Society has been added to the library. The monthly bulletins of this organization are also kept here. These greatly facilitates reference work.

The addition of Professor Hewitt Wilson to our teaching staff has been a great help to this department. Professor Wilson is an Ohio State man and came to us from a terra cotta plant in Washington. He has introduced a very complete course in terra cotta body and glaze study.

The annual meeting of the American Ceramic Society was held at Pittsburgh, February 3-7. Professors Watts, Harrop and Wilson, and a number of Juniors and Seniors attended. They report a very interesting and instructive meeting.

The meeting of the Central Ohio Ceramic Society was held at Zanesville, Ohio, the evening of April 24th. Professor Watts gave a very interesting talk on "The Occurrence of Feldspars, Flints, and White Clays in the United States."

Professor Watts took eight Juniors and Seniors on an inspection trip to Zanesville, Ohio, recently. While there, they visited the tile plants, potteries, and chemical porcelain plants and saw the manufacture of ceramic wares from the preparation of the clays to the finished product.



## ARCHITECTURAL SMOCK DAY TRADITION

BY MARY LUCILLE CHURCH

The year in which Smock Day Tradition originated is not known, but the day and month, fortunately, have been recorded. This day, November the twenty-fifth, has been set aside in order that the Sophomores may receive the most highly coveted smock as an indication that they have satisfactorily passed the requirements of the institution to become members of the Architectural Department of the Ohio State University.

A formal program has been developed. The faculty and students stand in a semi-circular formation and are addressed by a member of the faculty chosen as master of ceremony. Then a paper is read, stating the reason for which the Sophomores have been brought there, what the men who have passed before them have done to uphold the "Royal Order of the Smock," and what is expected of them, who have been chosen to take the places of those who have passed from their midst.

After the reading the illustrious Juniors are commanded to step forward to present their comrades with the Smock, the work of an architect. On receiving it, the Sophomores pledge themselves to uphold the honor conferred upon them.

The ceremony is followed by a dinner in honor of the new members. Thus ends the time honored tradition of "Smock Day."

The Architects opened their social program with a Thanksgiving party in Brown Hall, when games were played and refreshments served.

The Christmas party brought with it music and dancing.

A Valentine party was given the Architects by Miss Katharine Babbett, who spared nothing in the elaborate decorations of her home and in the refreshments served.

On February fifth, the Architectural Club elected the following officers: Earl Requarth, president; Katharine Babbett, vice-president; Louise Abbott, secretary; Galem Oman, treasurer; Professor Charles St. John Chubb, ex-officio member of the executive committee. A business meeting was called for February nineteenth by the new president.

At a fellowship meeting March fifth, Professor Joseph N. Bradford gave an interesting address on "How to Build a House," after which refreshments were served. This meeting was such a success, that a like one was arranged for April second, at which time, Lieutenant John Wells, class of 1915, gave an interesting talk on his experiences in France.

A new tradition has been inaugurated—the Architectural Luncheon, of which three have already been held—February 27, March 27 and May 1, at noon in the Ohio Union's private dining room.

Professor Charles St. John Chubb attended the Ohio Association meeting of the American Institute of Architects as secretary of the association. The Institute chapters of Cincinnati, Cleveland, Columbus, Toledo and Dayton sent representatives to these meetings, which were held in Cleveland at the Hotel Statler.

Professor Wilbur C. Ronan has resumed his teaching after a leave of absence, during which he

was engaged in air service, making a special study of photography at the ground school at Cornell.

Professor Charles St. John Chubb attended a regular meeting of the American Institute of Architects at the Fort Pitt Hotel, Pittsburgh, to discuss the various phases of the post-war program of the Institute.

Professor F. H. Haskett was recently appointed Official Historic Photographer for the University, whose duty it is to keep photographic records of all photographs of interest and progress in the University history. Old pictures of scenes and events portraying university life should be mailed to Professor Haskett, so that a copy may be placed on file.

Mr. Earl L. Requarth's thesis is "The Design of an Office Building."

Miss Mary M. Hanly has as her thesis "The Design of a Women's Club."

Professor Wilbert C. Ronan, of the department, was recently married to Miss Dorothy Berenice Lowe of Circleville, Ohio.

Professor Howard Dwight Smith, on April fifteenth, delivered a lecture entitled "Co-operation Between Engineer and Architect," before the Dayton Engineers' Club, of which Mr. C. F. Kettering, one of the University trustees, is an officer.

Professor Charles St. John Chubb was sent as a delegate from the Columbus Chapter to the National Convention of the American Institute of Architects, held at the Hotel Hermitage, Nashville, Tenn., April 30 to May 1-2.

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### MINING

The School of Mines is working on a change of schedule in the curriculum leading to the degree of Bachelor of Engineering in Mining, which change, it is believed, will balance the work better and enable the student to get a clearer grasp of the elements of mining and ore reduction.

The principle proposed changes are the placing of general geology in the second semester of the sophomore year instead of in the junior year, the addition of laboratory work to the course in ore dressing, the introduction of a course in microscopic petrography, and the rearrangement of the work in mine engineering so that it will commence in the junior year instead of being concentrated in the senior year as it is at present. The course in mine design has been enlarged to extend over the entire year, instead of only one semester as is now given.

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### CHEMICALS

At the beginning of the second semester, the students' branch of the Chemical Society was reorganized. It now has a membership of about fifty students. At the first meeting, held on Feb-

ruary 18th, Professor D. J. Demorest, who held the rank of Major in the Chemical Warfare Service, gave an interesting talk on "The Production of Toxic Gases at Edgewood Arsenal." He told something of the real problems that Chemical Engineers will come up against when starting out on the job. At the close of his talk a short business meeting was held and the following officers were elected for the semester: Victor J. Roehm, president; Harold Van Doren, vice-president; Miss Elouise Fromme, secretary; Harry C. Howell, treasurer. At the close of the business meeting, refreshments were served.

At the second meeting, held March 4th, in the Ohio Union, Robert E. Mueller gave a very complete talk on "The Willard Storage Battery." Mr. Mueller was in charge of one of the Willard laboratories for some time. The next talk of the evening was given by K. La Doyt Hertel on "The Manufacture of Guncotton." Mr. Hertel's talk was very interesting, as he spent some time during his summers with the E. I. DuPont Co. at Hopewell, Virginia.

The third meeting was held April 1st, in conjunction with the Columbus branch of the American Chemical Society. Professor Wm. McPherson, formerly Lieutenant Colonel in the Chemical Warfare Service, gave an address on "The Inter-allied Gas Warfare Conference" which was held at Paris. In this address he gave a particularly good description of how the chemists of the different countries met together to discuss the problems relating to successful gas warfare. The next talk of the evening was given by Professor D. J. Demorest. The subject of his address was "Some Interesting Engineering Features of Toxi Gas Production." The success of the Edgewood Arsenal in the production of gas was largely due to Major Demorest's work.

The fourth meeting was held on April 23rd. Dr. C. E. Boord gave an address on "The Side-lights of the Buffalo Meeting of the American Chemical Society." Dr. Boord, and other of the faculty of the chemistry department, attended the recent meeting at Buffalo. Dr. Boord gave a thorough review of what took place each day at the meeting. The next talk of the evening was a talk on "The Manufacture of Beet Sugar," by Don C. Steinbrenner.

The Senior's annual inspection trip was scheduled this year from April 28th to May 3rd. Akron, Cleveland, Buffalo and Pittsburgh were on the list of cities visited. The Seniors were accompanied by Dr. Withrow and Mr. Vilbrandt of the Industrial Department.

The annual banquet of the Student Chemical Society will be given at the Chittenden Hotel on the evening of May 8th.

## CIVILS

On Tuesday, February 18th, the Civil Engineers Club held its first meeting since the demobilization of the S. A. T. C. Professor F. H. Eno was present at the meeting and gave a very interesting and instructive talk on the new bill for "Registration of Engineers." Following the talk, the election of officers for the semester of 1919 was held. Mr. B. F. Hatch was elected president.

The Club was favored by a talk from Professor C. E. Sherman at its regular meeting on March 11th. Professor Sherman talked on "Boundary Lines," showing clearly the advantages of the meridian system of our western states over the indeterminate system used in Europe.

For the meeting of March 25th, the Club was fortunate in securing Mr. G. H. Simpson, who is city engineer in charge of Flood Protection. Mr. Simpson spoke on "Flood Protection for Columbus." With the aid of a large map, he pointed out clearly just what was being done in Columbus to save life and property from a repetition of a flood, such as occurred in 1913.

On April 8th, Mr. Crandall, representing the Barrett Company, gave a talk on the construction and maintenance of bituminous roads. The talk was illustrated and proved interesting as well as instructive.

The Civils have a snappy baseball team, and have made a fine start by defeating the Pharmacists, 18 to 10. It has been confidently stated that the Civils will win the cup.

C. A. Campbell, F. H. Fox and K. B. Skardon are attending the Sorbonne University in Paris.

Professor Eno has been kept quite busy on conservancy work in Cleveland.

## ELECTRICALS

Professor C. A. Wright, who graduated from Tulane in 1906, with the degree of B. E. in M. E., and later from Harvard with the degree of M. E. E., is now in charge of the development of the courses in telephony.

Dr. A. E. Flowers, formerly professor of electrical engineering, and during the war serving as captain in the Signal Corps, will not return to school. He has accepted a position as Research Engineer in charge of the testing department for the various plants of the National Aniline and Chemical Co. His headquarters will be at Buffalo, N. Y.

Mr. R. B. Reed, E. E., '96, was in Columbus, April 23rd, presenting a paper before the meeting of the Ohio Electric Light Association on "Low Temperature Heating by Electrical Means." Mr. Reed is sales manager for the Young Brothers Company of Detroit, manufacturers of ovens for use in industrial heating.

Two 100 H. P., twin armature, bi-polar railway

motors, built for operation of 5000 volts D. C., were recently presented to the University for experimental purposes by the Westinghouse Co.

Professor Caldwell is chairman of the Ohio Electric Light Association which recently established a correspondence course. In the preparation of technical papers, the committee has the co-operation of the Electrical Engineering Department, under whose auspices they are published. It is believed they will extend the usefulness of these technical letters to others outside the association, and thus widen the campaign for good lighting.

Special permission has been given by the government to open the Radio station for receiving only, in order that Professors Blake and Brown might carry on research work.

The war department has offered to supply over \$10,000 worth of equipment for the Signal Corps of the R. O. T. C. No definite action has been made by the University, due to the fact that no space has been provided. Those who take the work fit themselves to be officers in the Signal Corps.

Beginning with the class of 1922, the E. E. students, as a prerequisite to the degree of B. E. E., shall have satisfactorily completed 10 weeks of employment in an approved industrial or engineering occupation. A complete report on the human aspects of the work shall be required. In case a student is unable to obtain such work, he may substitute eight credit hours of academic work.

## ELECTRICAL MECHANICAL INSPECTION TRIP

By WENDELL L. MARTIN, '19

In previous years the annual trip for the Electrical and Mechanical Engineers has included Pittsburgh, Niagara Falls, and Cleveland. It has, however, for some years been the desire of the two departments to extend the trip to the coast, making possible a visit to the General Electric Company at Schenectady where Ohio State has a strong alumni representation, and incidentally, lending to it the color of a sight seeing excursion to New York. This year's group of engineers considered themselves financially strong enough and physically able to undertake a strenuous trip, so the pipe dreams of our indulgent faculty were realized and a crowd of thirty electricals and mechanicals were allowed the opportunity to observe, not entirely from an engineering standpoint, the lighting arrangements of that famous district of an eastern city on a street known as Broadway.

From the varied engineering activities observed, a few impressions were left. These impressions rather than an accurate description of the visits

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### INSPECTION TRIP

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made are the true retrospect, and some of them will be given briefly.

The construction of electric locomotives at the Westinghouse and of battleship propulsion machinery at the General Electric Works furnished good examples of industrial work going on from day to day. Information picked up at both places indicated that the practicing engineer's life is not unlike that of the student engineer, in that it is not a utopian existence, entirely free from worries. The Westinghouse engineers, for example, are perplexed by the problem of a mounting for their locomotive driving motors. Their present mounting consists of a quill or shell surrounding the axle and attached to the drivers through coil springs. It is not perfect and anything that can be made more satisfactory is a subject for theorizing and experimenting and these break up the rest of a good engineer. The General Electric engineers had in hand the repairing of a turbine of the U. S. S. New Mexico which, due to a failure in its governing devices, ran away and wrecked itself. This also is annoying to a self-confident designing engineer.

The manufacture of mammoth dynamos and turbines as seen at the General Electric and Westinghouse works is impressive from the point of view of the ingenuity involved in solving the problems in construction.

Ordnance manufacture recalls a picture in our school histories of a metal worker making a cannon for Napoleon's army. The process was a simple one, using a small amount of power and a low degree of accuracy. A horse walked around a vertical shaft which turned a mandril attached to the cannon. Mechanical considerations made it necessary for the horse to walk under the cannon, so the latter was placed on the second floor. Howitzer and naval gun manufacture at the Midvale Steel and Ordnance Works is, on the contrary, remarkable for its high power and fine accuracy operations. The body of a large gun is made in two parts, the outer and the inner shell. The inner shell is of tempered steel and carries the rifling. Its outer surface is conical and fits into the outer or supporting shell. The two are put together by a process combining pressure and shrinkage.

Ohio State Alumni Associations were met at New York, Schenectady, and Buffalo. If the do-

ings of the alumni are a true index to the possibilities of the present State men, the outlook could hardly be called disappointing as alumni were found in positions from student course to New York bank president.

The itinerary was planned to cover a large territory in a small time, making night travel necessary. In a special Pullman with a crowd of thirty Seniors and two young professors, it is needless to say that restful conditions do not prevail at an early hour. This method of obtaining rest, combined with long days in shops and factories, made the trip a strenuous one.

The boat ride up the Hudson was a pleasant relief from Pullman traveling. The Grand Fleet, anchored along the bank was passed soon after leaving New York, and West Point was seen later in the evening. In spite of the fact that the days were well filled up by the itinerary, some time was left for general sightseeing. At Philadelphia several feet of film were exposed to Independence Hall, the Betsy Ross House and the Liberty Bell. Sunday was a sight-seeing day in New York. The Gorge Route trip was included in the stay at Niagara Falls. The things that were of general interest as well as of technical interest made the trip well worth while. However interesting the new things seen, Ohio was a welcome sight to the returning crowd. \_\_\_\_\_