

THE TECH

VOL. XXXII. NO. 80

BOSTON, MASS., FRIDAY, JANUARY 17, 1913

PRICE TWO CENTS

ARCHITECTURALS HOLD ENJOYABLE SMOKER

Mr. E. I. Williams, '08, Gives Talk on Architecture in Europe.

Last night the Architectural Society held its second smoker of the year—one of the best meetings the society has had. Over eighty students were present to enjoy the talk of the speaker of the evening, Mr. E. I. Williams, '08.

Mr. Williams, who won the Traveling scholarship in 1909, spoke chiefly concerning the American Institute at Rome. He gave a brief resume of the different procedure of the students abroad, as compared with the methods pursued by those at Technology. He showed how architecture was neither achieved by an exact science nor divination, but by a combination of the two plus reason.

The first part of his talk was mostly criticism and advice for students in their work at the Institute. He gave an idea how French students study the elements and how they treat time problems. In connection with the French system he warmly praised our late Professor Despradelle. Mr. Williams then told of his experience in Professor Despradelle's office, where he was fortunate enough to be employed one summer. He explained how broad his views were and how valuable it was for a student to have the ability to consider a problem in more than one way. Mr. Williams believes that the average American does not gain much by going to Paris to study unless he is able to spend three or four years there. All the advantage that the student can get is a few tricks in draughtsmanship. He said that "Beaux Art" really stands for the spirit of study, much like the "Tech spirit."

Then followed a description of the American Academy at Rome. Its general purpose is misconceived, for it is not a school but a home in a country where men can develop themselves by coming in contact with some of the world's greatest classics. (Continued on Page 2.)

NO TECH ENTRY.

Team Will Not Meet Harvard in C. A. C. Games Next Week.

Coach Kanaly and Captain Germain have decided that since the examinations will have started by the time scheduled for the Coast Artillery Corps games, no relay team will be entered in this meet. This decision was made in order to give the members of the relay team the opportunity to study for their exams, for, if they entered the race it would mean that their studies would have to be neglected. These games will take place on January 25th, in the South Armory on Irvington street. All men desiring to enter will be allowed to do so, but Coach Kanaly will not ask anyone to give up their time to enter any of the races.

Yesterday afternoon the men were again timed for a fast 300-yard trial, which, however, will have no effect on their standing, the latter being entirely determined by their time in the final trials on Saturday and Wednesday. H. S. Benson, the speedy Freshman, has injured his leg, but nevertheless will take his trial, and still has a fine chance to make the team.

PREVIOUS "POL-ECON" EXAMINATIONS

Examinations of Last Five Years Reprinted for Benefit of Juniors.

The members of the Junior class will, no doubt, find the past examinations in Political Economy, which we print below, of use in studying for the examination which comes Saturday, January 25, from 9 to 11 A. M. We are enabled to reprint these questions through the courtesy of Professor Dewey, who kindly went through his files and picked out the examinations which were given in '12, '11, '10, '09 and '08.

January, 1912.

1. Define or explain:
 - (a) Utility.
 - (b) The law of marginal utility.
 - (c) Distinction between free and economic goods.
2. Is consumption of wealth for luxuries by the rich advantageous to labor as a whole?
3. What is the difference between a partnership and a corporation? Is the latter a more effective form of business organization?
4. How is price determined? Illustrate by a diagram if possible.
5. Are the profits of the employer deducted from wages?
6. (a) Define a legal tender as applied to money.
 - (b) What is meant by fiat money?
7. What effect on exchange has the holding of American bonds abroad?
8. Is it an economic advantage to a community to limit the rate of interest? Discuss.
9. Is a tax a burden upon industry?
10. Define:
 - (a) Rent.
 - (b) Seigniorage.
 - (c) Discount.
 - (d) Closed Shop.

January, 1911.

1. What is meant by the amortization or capitalization of taxes?
2. Explain the significance of asset banking.
3. Explain the significance of the dates 1878, 1890 and 1893 in the controversy for the coinage of silver.
4. What is collective bargaining?
5. Define "dumping" as applied to international trade.
6. What is the Malthusian theory?
7. Define the two kinds of co-operation and the defects of each.
8. Can land owners shift a tax on rent?
9. Enumerate in detail the arguments in favor of protection.
10. To what extent are different (Continued on Page 3.)

MUSEUM COURSE.

There will be the two usual lectures at the Museum of Fine Arts next Sunday afternoon. In the Department of Classical Art Dr. George H. Chase will speak on Greek Vases in the Greek Vase rooms, on the ground floor, at 2.30. Dr. Chase being the assistant professor and curator of classical antiquities at Harvard, is well qualified to speak on this subject. At 3.15, in the galleries of the Department of Egyptian Art, Mr. Joseph Lindon Smith will meet all visitors to that collection. The public is invited to attend both the lecture and the Egyptian Galleries.

PROFESSOR LEWIS ADDRESSES CHEMICALS

January Meeting of Chemical Society Proves Very Successful.

Last night the Chemical Society held its last meeting of the term in the Union, with Professor Lewis as the chief speaker. After the minutes of the previous meeting had been read and accepted, Professor Lewis began a discussion of the definition of the professional man as a preface to his talk on "The Professional Man in the Community." He showed how logical and reasonable the definition of a professional man as "a man with a mind trained for service." He took up the various professions in turn, and showed how the world and the profession judges its members by the amount of service they render the profession and the community, and not the amount of money they make. That this is true in the oldest of the professions, that of the priesthood, is evident, and Professor Lewis took John Marshall as an example of the lawyer who has been proved successful by this standard. But the adherence of the law to the ideal of service to the community is at the present time far less marked than that of the medical profession. Within a few decades the medical profession has so insisted on the standard of service to the community that it now outranks any other.

Then Professor Lewis discussed the right of the business man to the title of a professional man. He showed how no one could rightfully call business a profession, for at present the success of men in business is judged solely by the amount of money that a man makes, not in any way by the amount of service he renders the profession and the community.

Then he gave the members of the society a bit of sincere advice about the ideals they should carry into their life work. He told them that the recent tendency toward individualism had gone so far that men forget that they obtain from the community almost all the mental training they receive, and that to the community they owe the return of this knowledge in the form of service.

He also mentioned that the chemist and the chemical engineer must needs face the great problem of business today, that of the relation of labor to the employer, and that they must solve it individually if they wish to earn a living; for their relations with labor must not be strained, as they must use labor to perform their tasks, and they must (Continued on Page 2.)

SOPHS VS. BRIDGEWATER.

The Sophomore basketball team will play the Bridgewater Normal quintet at Bridgewater tomorrow night at 8 o'clock. Noticeable improvement has been made of late in the 1913 team and a fine exhibition of speed and strength is promised. The Sophomores expect to repeat the victory that they gained over the St. John's Prep team last Saturday.

The following men will participate in the game for the Sophomores: Morse, Quirk and Scully, forwards; Neuman, center; O'Brien, Wilson and Dalton, backs.

WRESTLING TEAM VICTORIOUS

Defeats Y. M. C. A. in Four Out of Six Bouts at Salem Last Night.

The M. I. T. wrestling team defeated the powerful Salem Y. M. C. A. team last night in four bouts out of six. In the 115-pound class Thayer won in the remarkable time of 45 seconds. The 125-pound was lost to J. E. Sullivan of Salem in 5 minutes and 45 seconds, Kelley, of M. I. T., won the 132-pound bout in 1 minute and 5 seconds. The first 145-pound bout was lost to Thos. Sullivan of Salem, in 15 seconds, by decision. The second 145-pound bout was won by E. R. Alexander, of Technology, in 15 minutes, by decision. The heavyweight bout was won by Crowell, in 4 minutes and 10 seconds.

The success of the team in this meet is particularly to be commended, according to the men in charge, because of the reputation which the Salem Y. M. C. A. holds among the wrestling teams of this part of the State. It is to be commented upon that the Tech men lost one of the bouts by decision. This successful meet assures the team of several other trips to be taken in the near future.

WIRELESS MEETING.

Amateur License Examinations Will Be Discussed.

A regular monthly meeting of the Technology Wireless Society will be held at 4.15 this afternoon, in Room 11, Engineering B. A business matter of considerable importance is to be considered, and a full attendance of the members is desired. Those who attend will be given an idea of the examinations for amateur radio-operators which are being given at the Charlestown Navy Yard. As every operator of the Technology station will be required to take the examination sooner or later, this information will be valuable to all the members, as it will give them an idea what to expect. The society extends to all students at the Institute who are interested in radiotelegraphy or allied subjects to come to the meeting.

WEATHER.

Forecast for Boston and vicinity: Cloudy, probably local rains today; moderate southwest winds.

CALENDAR.

- 1.00—Business Department—THE TECH.
- 4.15—Wireless Society—11 Eng. B.
- 5.15—1913 Basketball Practice—Gym.
- Alumni Meeting at New York.
- 8.00—Tech Show Orchestra Concert—Woburn.
- Saturday, January 18, 1913.
- 8.00—1913 Basketball—Bridgewater, at Bridgewater.
- 8.00—Wrestling Team—Marblehead.
- Alumni Meeting at New York.

THE TECH

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FRIDAY, JANUARY 17, 1913

Last evening the Chemical Society held its final meeting and had for its talk, "The Engineer in the Community." This subject suggests a matter which every man should be thoughtfully considering during his entire undergraduate career, and making an effort to fit himself most wisely for taking a broad, active interest in whatever community he is placed after graduation.

It matters little what department of engineering or science he enters when his relation to the community is considered, for there is always much that can be accomplished toward bettering life generally in any branch of engineering or science.

(Continued from Page 1.)

It is primarily a school for the collaboration of three arts—architecture, painting and sculpture. There are three scholarships offered each year, and as there are no prescribed courses of work, the students are supposed to take the best advantage of the opportunities offered to them. He said that practically every town had relics (mostly Renaissance) of some value, and told how he was given a studio and obliged to shift for himself.

In the rest of his talk Mr. Williams gave some personal recollections of his work of three years around Rome. The first year he made a restoration of the "Temple of Vesta" in the Forum. The second year he made an original design of the Renaissance period. He said everyone paints in Italy, in fact "there's where they put water in water color." The last year he traveled in Greece.

His talk, which lasted more than two hours, was illustrated with slides, and those present were so enthusiastic that they asked him informal questions for two hours more. A Dutch supper completed a very enjoyable and instructive evening.

COMMITTEE PICTURES.

This noon, from 1 to 2 o'clock, in the Union, orders for copies of the Institute Committee picture can be ordered from P. M. Werlich, '15, the secretary of the committee. The price of the pictures will be one dollar and a quarter.

NAVAL ARCHITECTS TO TAKE LONG TRIP

Professor Everett Will Conduct Party of Course XIII Students.

The annual shipyard trip of the students of Naval Architecture and Marine Engineering will begin on Thursday, January 30. This trip has been arranged by Prof. Peabody, who will be unable to accompany the students, however, and Prof. Everett will take charge instead. The trip is open to third and fourth-year men in the course, and it is hoped that many of these will take advantage of this opportunity to get some practical knowledge. In former years this trip has always been very successful, and this one promises to exceed them all.

The itinerary follows:

Thursday, January 30th.

Leave Boston, South Station, 6 P. M., via Fall River Line Express. Steamer stateroom \$1.00 additional.

Friday, January 31st.

Arrive in New York at 7 A. M. Visit Navy Yard. Leave New York at 4 P. M. from Liberty street via B. & O. R. R. Arrive in Philadelphia at 6 P. M. Room included at Hotel Walton.

Saturday, February 1st.

In Philadelphia. Visit N. Y. Shipbuilding Co., Camden, N. J., in morning, and yard of Wm. Cramp & Sons in afternoon. Hotel Walton; room included.

Sunday, February 2nd.

Leave Philadelphia 10.17 A. M. via B. & O. R. R. Arrive in Washington at 1.18 P. M. Transfer to Congress Hall Hotel. Room and meals included for entire stay. Optional trip to U. S. Naval Academy, Annapolis. Leave at 2 P. M.; return 6 P. M. Round trip, \$1.50 additional.

Monday, February 3rd.

At Washington. Congress Hall Hotel. Visit Navy Yard.

Tuesday, February 4th.

At Washington. Congress Hall Hotel. Early breakfast. Leave after breakfast via B. & O. R. R. at 7 A. M. Arrive in Baltimore at 7.50 A. M. Leave Baltimore via Penn. R. R. at 8.20 A. M. Arrive at Sparrows Point at 8.50 A. M. Leave Sparrows Point at 5 P. M. Arrive in Baltimore at 5.30 P. M. Leave Baltimore at 6 P. M. via Merchants' & Miners' Transportation Co. Room and meals included.

Wednesday, February 5th.

Due at Newport News in morning. Visit Newport News S. B. & D. D. Co. Leave in afternoon.

Thursday, February 6th.

At sea.

Friday, February 7th.

Arrive in Boston about 7 A. M.

(Continued from Page 1.)

understand and appreciate the aims of their employer, in order that he may find their professional knowledge of use to him.

After Professor Lewis had finished the formal part of his talk he suggested that the men ask him questions about the ideas that he had expressed, for he felt that they were open to objections. The men responded with a volley of interesting queries that kept Professor Lewis talking in a most interesting manner for fifteen minutes more.

Then the business meeting was held, and it was voted that the President appoint a committee to report on the revision of the constitution of the society, as it is now out of date. Then followed a very lively discussion on the suggestion that the dues be raised to \$1 per year, and then the meeting adjourned for refreshments and an informal good time around Professor Lewis, who proved perfectly willing to discuss his talk with the men who could not agree with his point of view.

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(Continued from Page 1.)

kinds of United States money legal tender?

January, 1910.

1. Discuss protection and free trade. Give at least three arguments in favor of each.
2. What is interest?
3. What are the most important elements which make up profits?
4. Do profits made by an establishment constitute a part of the price of the goods manufactured by the establishment?
5. What arguments are advanced in favor of socialism?
6. What is meant by progressive taxation?
7. What are the defects of a general property tax?
8. Is it desirable to limit the rate of interest by law?

January, 1909.

1. Explain the difference between free and economic goods.
2. Is an insurance agent a producer of wealth? Explain.
3. What are the special advantages of the corporation in the organization of industry?
5. Define:
 - (a) Seignorage.
 - (b) Greenbacks.
 - (c) Flat money.
 - (d) Asset currency.
6. Explain reserve system of national banks.
7. What factors determine the rate of foreign exchange.
8. Give a list of arguments in favor of protection.
9. Explain the law of rent.
10. Do profits enter into the price of a commodity?
11. Explain life insurance by the level premium plan.
12. What is the difference between socialism and anarchism?

January, 1908.

1. What is the relation of value to marginal utility? Use a diagram if possible.
2. Six sellers of bicycles are willing to sell at \$20, \$22, \$24, \$25, \$27 and \$30, respectively. Six buyers are willing to pay \$40, \$35, \$32, \$30, \$28 and \$25. At what sum will price be established?
3. Does spending money for immediate luxuries create a greater demand for labor than saving and depositing it in banks? Discuss briefly.
4. What are the defects of the national banking system?
5. What is the par of foreign exchange with England? What are the maximum and minimum limits of exchange rates, and what factors determine these limits?
6. John Doe buys a piece of real estate for \$15,000. At the time of purchase the property was assessed at this sum and the tax rate was \$12. A few years later Doe wishes to sell this property to Richard Roe. The tax rate has gone up to \$18 per \$1,000. The earning capacity of the property has not increased. The current rate of interest during the whole period has been 5 per cent. At what price will Doe sell the property?
7. A bank has the following statement:

RESOURCES.

United States bonds..... \$20,000
Real estate and furniture..... 10,000
Cash on hand 70,000

Total\$100,000

LIABILITIES.

Capital stock.....\$100,000

Total\$100,000

Fifty thousand dollars in bills and notes are discounted at an average rate of 5 per cent. per annum, and for an average time of three months. Those receiving discounts take \$5,000 in cash, \$15,000 in bank notes, and the remainder in the form of deposit accounts. How will the statement then read?

8. Explain collective bargaining.

SHOW MAY BE GIVEN IN N. Y. THIS YEAR

Alumni at Reunion to Be Asked to Support New York Performance.

Now that the time of the Alumni Reunion in New York is here the Show is doing the most it can to persuade the hundreds of Institute men who will thus be brought together to do all in their power to make a performance of "Money in Sight" a possibility for New York City. It has been the ambition of the Show management for the last two or three years to give such a performance, but so far it has not seemed possible to do so. The reunion presents a simple way in which to reach the Alumni, so that initiative preparations for a performance in the Astor Hotel on April 19, 1913, have been progressing for the past three weeks.

The possibility of a production in New York was first brought to the attention of the New York Alumni Association by R. V. Weeks, general manager, on the 12th of November. The Association seemed to be enthusiastic about the project and appointed a committee to look after the Show's interests. The members of the committee are K. Spaulding, '89, chairman; J. P. B. Fiske, '89; W. H. Martin, '11, and H. E. Stump, '10. These men have met several times and have apportioned the work among themselves, thus one man is to handle the Alumni, another the patronesses, a third the advertising, and a fourth the ticket sales.

As the first means of bringing the idea to the attention of the Institute Alumni in general, it was determined to advertise as extensively as possible at the time of the reunion. So it happened that immediately after the Christmas holidays two of the frames of pictures of past Shows were taken from the Union and sent to New York. These have been put up in prominent places, one at the Hotel Plaza, the headquarters, and the other at the Technology Club in Gramercy Park, so that they cannot fail to come to the attention of all the Alumni present in New York. Moreover, two hundred programs and fifty posters of "Castles in Spain" have been forwarded and will be on exhibition at every vantage point. In addition, 1200 handbills have been printed and will be scattered among the Alumni. The New York committee feels confident that considerable enthusiasm for a New York production of Tech Show, 1913, will be manifested among the Alumni.

In order to reach the men while they are still enthusiastic from the reunion the management is going to write letters with return postals to each of the eleven hundred of the New York Alumni, inquiring to what extent each man personally will be asked to support the performance on April 19th. The replies are expected to be completely in by the first of February, and if they indicate a sufficient support to make the trip a financial success, "Money in Sight" will be given in Hotel Astor, and April 19th will be New York City's next big date.

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SAT., 8 to 11.30. AIDA. Amslen, Leveroni, Zeni, Polese, Sampleri, Mardones. Conductor, Moranzoni.

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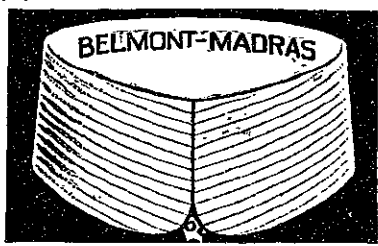
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Sections 2 and 3 will recite in Room 49, Engineering A, on Tuesdays and Thursdays, and in Room 21, Lowell, on Saturdays, at the same hour.

All sections should prepare articles 6 to 12 inclusive of Russell's Hydraulics.

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