

THE TECH

VOL. XXXIII. NO. 32

BOSTON, MASS., WEDNESDAY MAY 14, 1913

PRICE TWO CENTS

TECH-WORCESTER DUAL MEET NEXT SATURDAY

Close Score in Favor of Tech and Interesting Races Expected.

Next Saturday, at Tech Field, a dual track meet will be held between Worcester Polytechnical Institute and M. I. T. It will be the gala day for track athletics, being the first time this year that our men will be seen in intercollegiate competition.

Although there is little doubt that Tech will carry away the honors, it is not an assured fact by any means. It is very hard to tell just what the W. P. I. team may do as we only have the records of a triangular meet to go by. In the sprints W. P. I. has several good men and the races at these distances will undoubtedly be close. In the four-forty Tech seems to have a decided advantage over her opponents and should place well in this event.

When it comes to the longer distances W. P. I. is rather stronger than in the other track events. In the half and mile she has Capt. Keith, who is a worthy opponent of Capt. Germain, but Tech has a pretty strong half-mile squad, and W. P. I. will have to show up very well to score in this event. In the mile both teams have men who cover the distance in about the same time, and every one of the four laps should be closely contested. In the two-mile W. P. I. has two men who will run very close to, if not better, than the best time shown by Tech men this year.

Unless a surprise is in store, Tech has nothing to fear in the hurdles, as W. P. I. men have not done within a second of that clocked at our Spring meet.

Although Tech is rather weak in the field events, W. P. I. will not be out of reach by any means. It seems probable that W. P. I. will win the hammer, but on the other hand Tech should capture the discus, broad jump and pole vault. Both the shot-put and high jump will be very close and it is impossible to pick the winner.

CROCKER NOMINATED.

Course XIV Man Running For Chemical Society Office.

Ballots for the Chemical Society are being distributed by the officers and they may also be obtained at the Cage. These ballots do not contain the name of E. C. Crocker, 1914, who was nominated for the Program Committee, owing to the fact that his paper was lost at the Cage. The name "R. V. Townsend," among the nominees for president, should read "R. V. Townsend." These ballots are due Friday at 4 o'clock, at the Cage.

Friday night the society holds its annual banquet at the Hotel Plaza. Mr. Whitney of the General Electric Co. will be the principal speaker.

BROTHERHOOD MEETING.

This evening, at 7.15, the Brotherhood of St. Andrew will hold the last regular meeting of the school year. The meeting will be held at Mr. Kneeland's suite, No. 15, in the Ludlow Apartments, Copley Square.

All members are urged to be present so as to make this meeting a good ending for the year.

PROVISIONAL SCHEDULE FOR FINAL EXAMINATIONS SHOWS CHANGES

Seniors to Begin Monday, May 26, Others on 28th to Last Twelve Days Ending For All On Saturday June 7th.

Below is published in full the provisional schedule for the final examinations which extend over a period of twelve days in all. A radical departure from the usual custom has been made in that the Seniors will have examinations on Monday and Tuesday, May 26 and 27, before the regular scheduled ones begin. The list as now published will probably be the same as the regular official schedule issued by the Registrar, as most of the changes have already been made in former proofs.

The last exercises for all classes will be held Tuesday, May 27, the examinations beginning the next day and lasting until June 7. Only condition examinations will be given on the last day. The largest number on one day occur May 28, while on June 6 there are only seven.

The Seniors will be all through June 2, and if they have any other examinations to make up after this date they are requested to see the Registrar about them. The Juniors and Freshmen are all through on June 5, but the Sophomores will have one day more. The above holds true if condition examinations are excepted.

Reports will be mailed on June 16 to all home addresses, and requests for duplicates will be received until May 30.

The schedule as appears below is arranged as follows: Subject, subject number in the catalogue, year and time.

Monday, May 26.

Alternating Current Mach. 650. Year, 4. G. Time, 9-12.
*Biology of Infectious Diseases 745. Year, 4. Time, 2-4.
*Constructive Design 532. Year, 4. Time, 2-5.
*Dynamo-Electric Machinery 661. Year, 4. Time, 2-4.
*Heat Engineering 387. Year, 4. Time, 2-5.
History of Chemistry 645. Year, 4. Time, 2-4.
Hydraulic Motors 338. Year, 4. Time, 9-12.
Metallurgy 442. Year, 4. Time, 9-12.
Naval Architecture 902. Year, 4. Time, 9-12.

Tuesday, May 27.

Applied Chemistry 640. Year, 4. Time, 2-4.
*Applied Mechanics 80, II, XIII, XIII-A Year, 4. Time, 2-5.
European Civilization and Art 176 Year, 4. Time, 2-5.
Hydraulics 331. Year, 4. Time, 9-11.
Indust. Chem. 580. Year, 4. Time, 2-5.
Machine Design 404. Year, 4. Time, 9-11.
Personal Hygiene 729. Year, 4. Time, 2-4.
Structures, Stationary, 353. Year, 4. Time, 9-12.
Structures, Theory of, 348, 350. Year, 4. Time, 9-12.
*Technical Electrical Measurements 685. Year, 4. Time, 2-5.

Wednesday, May 28.

Argumentation and Debate 145. Year, 3. Time, 2-4.
Business Law 186. Year, 3. Time, 9-11.
*Dynamics of Machines 401. Year, 4. Time, 2-5.
English Literature 150. Year, 2. Time, 2-4.
English Literature of the XIX Century 157. Year, 3. Time, 2-4.
Heat Engineering 385. Year, 4. Time, 9-11.
Hydraulic Engineering 336. Year, 4. Time, 9-12.
Logic, Applications of, 144. Year, 3. Time, 2-4.
*Machine Design 404. Year, 4. Time, 9-11.
Marine Engines 913. Year, 4. Time, 2-4.
*Mechanism 360. Year, 2. Time, 9-12.
*Mechanism 362. Year, 2. Time, 9-12.
*Mechanism 364. Year, 2. Time, 9-12.
Military Science 990. Year, 1. Time, 2-4.
Mining Engineering 459. Year, 4. Time, 2-4.
Municipal Sanitation 753. Year, 4. Time, 2-5.
*Structures 351. Year, 4. Time, 9-12.
*Structures 348. Year, 4. Time, 9-12.
Sugar Analysis 573. Year, 4. Time, 9-11.
Theoretical Chemistry II 611. Year, 4. G. Time, 9-12.
Warship Design, Theory of, 915. Year, 3. Time, 9-12.
Warship Design, Theory of, 916. Year, 4. Time, 9-12.
Warship Design, Theory of, 917. Year, G. Time, 9-12.

Thursday, May 29.

*Alternating Current Machinery 650. Year, 4. G. Time, 2-5.
Applied Electro Chemistry 797. Year, 4. Time, 9-11.
Bact. of Water and Sewage 748. Year, 3. Time, 9-11.
Chemistry 551. Year, 1. Time, 2-5.
*Dynamo-Electric Machinery 661. Year, 3. Time, 9-11.
*Electrical Engineering, Elements of, 655. Year, 3. Time, 9-12.
Electric Railways 678. Year, 4. Time, 9-12.
Heat Engineering 387. Year, 4. Time, 9-12.
*Hydraulic and Sanitary Engineering 334. Year, 4. Time, 2-5.
Industrial Management 409. Year, 4. G. Time, 9-11.
*Metallurgy 442. Year, 4. Time, 9-12.
Metallurgy of Engineering Materials 443. Year, 3. Time, 9-12.
*Organic Chemistry 592. Year, 4. Time, 9-12.
Phys. Chem. of Engineering Alloys 90. Year, 3. Time, 9-11.
*Political Economy 190. Year, 3. Time, 2-4.
Proximate Technical Analysis 629. Year, 4. Time, 2-4.
Quant. Analysis 558. Year, 2. Time, 9-12.
Ship Construction 900. Year, 2. Time, 9-12.

(Continued to Page 2, Col. 2.)

FRESHMEN OUTCLASS OPPONENTS IN MEET

Defeat High School of Commerce in Easy Style—Loomis and Guething Star.

The Freshman track team commenced its outdoor season yesterday with a decisive victory over the Boston High School of Commerce. The score was 66 to 33. C. T. Guething, Reed and Loomis starred for the 1916 team, and Smith and Davis excelled for Commerce.

Two preliminary heats were run in the 100. Loomis easily took the first, with Hine second. Captain Smith of Commerce romped in a yard ahead of Adams in the second heat, neither exerting himself greatly. In the final heat Loomis defeated Smith by inches on the throw. Adams was set back for false starts, but was only a foot behind at the finish.

The hurdles were run in haste, Clarkson and Davis of Commerce, and Adams being the winners. In the final Adams and Clarkson took first and fourth, respectively, for Tech. Davis was a close second and Haggarty nosed Clarkson out of third.

Davis and Stellburger of Commerce outjumped their competitors in the high jump, taking first and second, respectively. Reed won the broad jump in easy style, and Commerce took the remaining three places.

In two heats of the 220 the school-boys only succeeded in placing one man, Smith. The latter won a close final heat from Loomis. Guething and Hine took the remaining places. Adams was disqualified for starting three times ahead of the gun.

Reed barely won the quarter from Beck of Commerce in fair time, with Calvin of Commerce and Lieber of Tech close behind. Guething had little trouble winning the half, with Dean second, and Benson likewise took an easy first in the mile.

BIOLOGICAL MEETING.

The meeting of the Biological Society which was to be held on Monday after a noon at 4.05 o'clock in 28 Pierce, was postponed until Thursday afternoon at the same time. Professor Gunn was unable to attend and the Society, therefore, made a trip to Spectacle Island instead.

The meeting on Thursday afternoon is to be held in order to elect the officers for next year, and it is important that all members of the Society be present.

WEATHER.

Forecast for Boston and vicinity: Wednesday unsettled, probably showers in afternoon or night, and cooler.

CALENDAR.

Wednesday, May 14, 1913.
4.15—1914 and 1915 Crew Practice
5.15—1916 Crew Practice.
6.15—Mechanic Arts Dinner—Union.
Thursday, May 15, 1913.
4.30—Freshman-Sophomore Baseball Game—Field.
5.15—Crew Practice.
6.30—E. E. Society Banquet—Union.
6.30—Catholic Club Banquet—Thorndike Hotel.

THE TECH

Entered as second-class matter, Sept. 15, 1911, at the postoffice at Boston, Mass., under the act of Congress of March 3, 1879.

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Office Hours of General Manager:
5.30 to 6.00. Daily. Except Saturday.
Office Hours of Managing Editor:
8.40 to 9.00 A. M. Daily; 5.30 to 6.00 P. M.
Daily, Except Tuesday and Thursday.
7.00 to 8.00 P. M. Friday.

WEDNESDAY, MAY 14, 1913

One thing that every Tech man should be ashamed of is the necessity that has arisen for a fence to protect the grass between Rogers and Walker. There is something wrong in the makeup of a man who will deliberately help tramp out the grass of his own front lawn—for the Institute is our own, and should be held just as sacred as our homes. Located as we are in a great city, the opinions of outsiders will be based largely on the appearance we make, and it certainly is a poor indication to show that we would rather save a few steps than keep our Institute looking as if we cared for it.

We notice with much gratification that the recent agitation for some means of reaching students at the Union with telephone messages has resulted in a neat and prominent bulletin board which has already been used on several occasions. On the other hand, we regret to observe a tendency already manifest toward the misappropriation of this board to such uses as lost and found articles and private advertisements. If the board is to be of advantage it must be reserved to the use for which it is intended; the other matters are adequately provided for by the larger bulletin on the stairs.

OFFICIAL INSPECTION.

This afternoon the M. I. T. Corps of Cadets is to be inspected by Capt. S. J. B. Schindel of the General Staff, U. S. Army. The inspection is the regular annual one which is required by the War Department, and is designed to test the general efficiency of the Regiment. The standing of Technology in military affairs will depend on the report of this inspecting officer. Absence from drill or failure to appear in full uniform will count more against a man at the inspection than at other times.

FACULTY NOTICE.

May 13, 1913.
The attention of students in the present Freshman class is called to the recently established course in Industrial Physics (Course VIII, Option 3), which goes into effect for the second-year class in September, 1913. Any students in the present Freshman class who wish to take this course instead of the one which they have already planned to take should notify the Registrar of their desire to make the change.

A. L. MERRILL, Secretary.

EXAM. SCHEDULE.

(Continued from Page 1, Col. 3.)

*Spherical Trigonometry 24. Year, 2. Time, 2-4.

Saturday, May 31.

Alternating Currents 656. Year, 3, 4. Time, 9-12.

Anthropology 720. Year, 3. Time, 2-4.
*Bridge Design 355. Year, 4. Time, 2-5.

*Current Public Problems 183. Year, 3. Time, 2-4.

*Electrical Engineering, Elements of, 683. Year, 4. Time, 2-4.

Electrical Engineering, Elements of, 653. Year, 3. Time, 9-11.

*English Literature 150. Year, 2. Time, 2-4.

European Civilization and Art 175. Year, 3, 4. Time, 2-5.

Food Analysis 571. Year, 3, 4. Time, 9-10.30.

*Hydraulics 330. Year, 4. Time, 9-12.

*Hydraulics 331. Year, 3, 4. Time, 9-12.

*Hydraulics 332. Year, 4. Time, 9-12.

Illumination and Photometry 674. Year, 4. Time, 2-4.

*Mathematics 35. Year, 3. Time, 2-4.

Mineralogy and Petrology 845. Year, 3. Time, 9-11.

Physics 770. Year, 2. Time, 9-12.

Ship Construction 904. Year, 3. Time, 9-12.

Structures, Theory of, 345, 346. Year, 3. Time, 9-12.

Thermo-Chemistry and Chem. Equilibrium 618. Year, 4. Time, 9-12.

*Trigonometry, Plane, 23. Year, 1. Time, 9-12.

Water and Air Analysis 565. Year, 3, 4. Time, 10.30-12.

Monday, June 2.

Applied Mechanics 74, 75. Year, 3. Time, 9-12.

Applied Mechanics 70. Year, 3. Time, 9-12.

Applied Mechanics 67. Year, 3. Time, 9-12.

†Descrip. Geometry 103. Year, 1. Time, 9-12.

*Economic Geology 859. Year, 4. Time, 9-12.

Engine Design. Year, 4. Time, 9-11.

*Geology, Dynamical, 855. Year, 3. Time, 2-5.

Locomotive Engineering 421. Year, 4. Time, 9-12.

*Mathematics 32. Year, 2. Time, 9-12.

*Mathematics 30. Year, 2. Time, 9-12.

Mill Engineering, 422. Year, 4. Time, 9-11.

*Mining Engineering 459. Year, 4. Time, 2-5.

†Precision of Measurements 772. Year, 2, 3. Time, 2-4.

Railroad Engineering 313. Year, 3. Time, 9-12.

Railroad Engineering 319. Year, 4. Time, 9-12.

*Stream Gaging 333. Year, 4. Time, 2-5.

Technical Electrical Measurements 685. Year, 3. Time, 9-12.

Telephone Engineering 672. Year, 4. Time, 9-11.

Theoret. Biology 704. Year, 4. Time, 9-12.

Theoretical Chemistry I 610. Year, 3, 4. Time, 9-12.

Tuesday, June 3.

*Descrip. Geometry 107. Year, 2. Time, 2-5.

*Descrip. Geometry 108. Year, 2. Time, 2-5.

European Civilization and Art 177. Year, 3. Time, 9-12.

*Fire Assaying 433. Year, 3. Time, 2-4.

Materials 352. Year, 3. Time, 2-4.

Mathematics 21. Year, 1. Time, 9-12.

Mechanism 360, 362. Year, 2. Time, 9-11.

Mechanism of Machines 365. Year, 3. Time, 9-11.

Mineralogy 841. Year, 2. Time, 2-4.

Naval Architecture 901. Year, 3. Time, 9-11.

Physiology, General 725. Year, 3. Time, 2-5.

Quant. Analysis 559. Year, 3. Time, 9-12.

(Continued to Page 5, Col. 3.)

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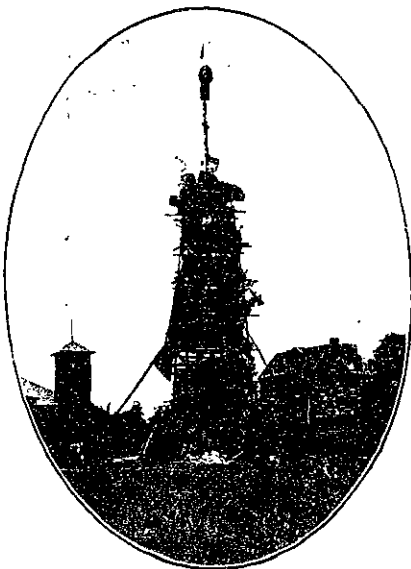
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**PROMINENT SPEAKERS
AT JUNE CONFERENCE**

College Men From All Parts of
Globe at Northfield
This Summer.

June 20th of next month will mark the opening of the annual Student Conference, held at Northfield, and many college men are looking forward to the few days they will spend there as delegates from all of the foremost colleges in the East. Technology as usual, will send a delegation, and earnest efforts are being made to send a large representation from the Institute to the Conference. The T. C. A. is most active in this work, and the association hopes that it will be able to send a larger delegation to the conference than it did last year. Any men who are interested are asked to confer with Mr. L. R. Talbot, the secretary of the T. C. A.

An unusually excellent program has been arranged for the annual meeting this summer. Some of the most noted speakers from practically all parts of the globe, will address the delegations on many of the problems facing college work, and College Christian Associations. Dean Charles R. Brown, of the Yale Divinity School, well acquainted with student work, and Mr. Edward C. Carter, a graduate of Harvard, who has worked considerably for Y. M. C. A. advancement in India, will be among the speakers. Mr. C. T. Wang, a graduate of Yale, and formerly secretary of the Chinese Student Christian Association in America and a prominent political leader in his native land, and Bishop C. H. Brent, all the way from the Philippines, will also be of much interest to the delegates.



NORTHFIELD BONFIRE.

Two noted and active workers in the student movement abroad will speak on their work in their respective countries. They are Baron Paul Nicolay of Russia, who has been prominently connected with working up a Student Christian Movement in that country, and Mr. Le Seur of Berlin. Mr. Le Seur is one of the most active men connected with student work in Germany. It is hoped this year to have Secretary Bryan present, and the prospects are bright that he will address the conference.

Aside from the real purpose of the conference, a most enjoyable time is afforded the delegates, in the form of sports, such as baseball, tennis, athletic meets, in which the different colleges compete, swimming and cross-country hikes. The culminating event of the conference is an intercollegiate celebration followed by a large bonfire, which is built at the outlay of a considerable sum of money.

**TESTS MADE ON COPPER
WIRE BY SENIORS**

Thesis Work of F. H. Achard
And H. E. Randall Arouses
Interest.

The copper wire that is strung in the rear of the Union and which has been causing so much comment of late, is a part of the thesis work of F. H. Achard and H. E. Randall. It is well known among electrical engineers that the resistance of large copper wire is different for alternating and direct currents. This in large measure, especially at high frequency of current, is due to skin effect. That is to say most of the current is carried by the outer layers while the core of the wire may be carrying little or no current, or even a current in the opposite direction. Such an effect is especially noticeable in wire of large diameter such as four nought, which has a diameter of .460 inches. This effect has been both calculated and measured for solid copper wire.

The object of the thesis of Achard and Randall is to determine the effects of currents of this kind upon stranded wire and if possible bi-metallic cable. To do this they had to construct the lines noticed in the rear of the Union as well as manufacture a large slide wire bridge with which to measure the increase of resistance and inductance.

CATHOLIC CLUB

Banquet to Be Held at Hotel
Thorndike.

On Thursday evening at 6.30 o'clock the Catholic Club will hold its annual banquet in Hotel Thorndike. The officers of the club have arranged a very interesting program for the evening and a large attendance is expected. The results of the election will be announced at the banquet, and Mr. Edward McSweeney will speak. Mr. McSweeney is a prominent Boston lawyer and a member of the Workmen's Compensation Commission and the Board of the Consumptive Hospital.

The ballots may be obtained at the Cage and they must be handed in to Box 32 before 4 o'clock on Thursday, in order that the results may be announced in the evening.

Tickets to the Worcester meet are on sale.

**CLASSIFIED ADVERTISEMENTS AND
NOTICES.**

Faculty Notices, free.
Activities, 4c. per line.
Individuals, 10c. per line. 8 words to a line.

LOST?

If the party, who was instrumental in relieving my inside coat pockets of valuable papers, etc., while said coat hung on the rack in Rogers 2, last Wednesday afternoon, will return by mail any of the material which he cannot make use of, I will not cause him any inconvenience. H. R. Perry, Mining Dept.

**THESES ARE DUE.
TUESDAY, MAY 27, AT 5 P. M.,**

It in no way pays to delay this important part of your last year at school.

Plan to finish your first writing at least two weeks ahead, so that the final form, which is a large factor in the effectiveness of all work, may be well done.

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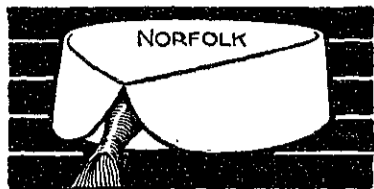
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**BANQUET OF MECHANIC
 ARTS CLUB TO-NIGHT**

Fine Speakers From the Institute
 And School to Address the
 Dinner.

Tonight, at 6.15 o'clock, the Mechanic Arts High School Club is to hold its annual banquet in the two small rooms of the Union. The committee in charge of the affair has arranged a very good program in addition to the excellent speakers who have been secured. Dean Burton and Major Cole of the Institute, Dr. Parmenter, headmaster of the Mechanic Arts High School, and Mr. Carpenter and Mr. Hanson, instructors in the same school, will be the speakers of the evening.

Members of the Club and seniors in the High School are cordially invited, and the committee in charge would like to see a large number present. The tickets at fifty cents each may be obtained from M. Paris, '14; C. L. Hall, '15, and G. W. Wyman, '16.

ELECTRICALS TO DINE

Prof. Dugald Jackson to Give
 Dinner Tomorrow Night.

The Electrical Engineering Society will be given another dinner this year by Professor Jackson of the Electrical Engineering Department. The dinner will be held in the Union Thursday night, May 15, at 6.30 o'clock. Mr. Gano Dunn, a former president of the American Institute of Electrical Engineers, is the speaker for the occasion. The results of the election of next year's officers will be announced during the evening. The officers of the society desire all the members to be present to show their appreciation of Professor Jackson's kindness.

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EXAM. SCHEDULE.

(Continued from Page 2, Col. 2.)
*Railroad Engineering 313. Year, 3. Time, 9-12.
*Theoretical Chemistry I 610. Year, 3, 4. Time, 9-12.
Wednesday, June 4.
*English 140. Year, 1. Time, 2-4.
*European History 173. Year, 2. Time, 2-4.
Fire Assaying 432. Year, 3. Time, 9-12.
Highway Engineering 314. Year, 3. Time, 9-12.
Industrial Water Analysis 567. Year, 3. Time, 2-4.
*Mathematics 38. Year, 3. Time, 9-11.
*Mathematics 40. Year, 3. Time, 9-12.
Microscopic Laboratory 708. Year, 1. Time, 9-11.
Organic Chemistry, 592. Year, 3. Time, 9-12.
*Physics 770. Year, 2. Time, 9-12.
*Physics, Heat, 771. Year, 3. Time 2-4.
Structural Design 538. Year, 3. Time, 9-12.
Thursday, June 5.
Applied Mechanics 60. Year, 2. Time, 9-12.
Bacteriology 744. Year, 3. Time, 9-11.
*Chemistry 550. Year, 1. Time, 9-12.
French (Intermediate) 241. Year, 1. Time, 2-4.
Geodesy 308. Year, 3. Time, 9-12.
German (Intermediate) 221. Year, 1. Time, 2-4.
German 222. Year, 2. Time, 2-4.
Heat Engineering 385. Year, 3. Time, 9-12.
Mining Engineering 458. Year, 3. Time, 9-12.
Zoology and Parasitology 718. Year, 3. Time, 2-5.
Friday, June 6.
*Applied Mechanics 60, III, X; 65, II, XIII; 66, I, XI; 67, VI; 68, IV; 69, IV. Year, 3. Time, 9-12.
German (Elementary) 220. Time, 2-4.
*Mathematics 20. Year, 1. 9-12.
Mathematics 31. Year, 2. Time, 9-12.
*Quant. Analysis 559. Year, 3. Time, 2-5.
Surveying 303. Year, 3. Time, 2-4.
Zoology, Invertebrate, 716. Year, 2. Time, 9-12.
Saturday, June 7.
*Applied Chemistry 640. Year, 2. Time, 9-11.
*French II 241. Year, 1. Time, 2-4.
*German 223. Year, 2. Time, 2-4.
*German 224. Year, 2. Time, 2-4.
*Heat Engineering 385. Year, 3. Time, 9-12.
*Organic Chemistry 590. Year, 2, 3. Time, 2-4.
*Qual. Analysis 552. Year, 2. Time, 9-12.
*Vertebrate Anatomy 717. Year, 3. Time, 9-12.

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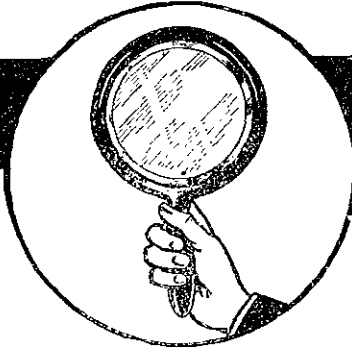
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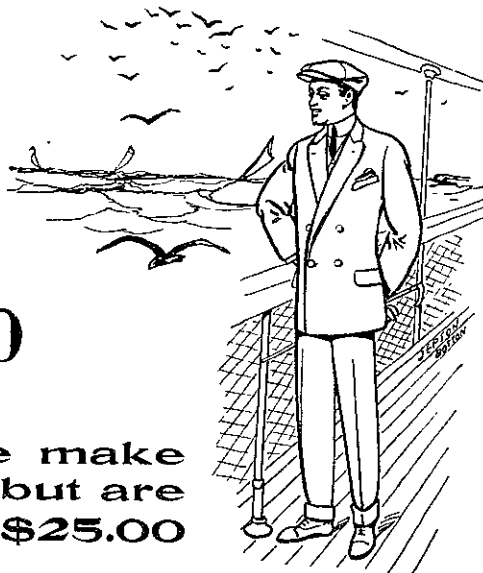
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