

THE TECH

VOL. XXXIII. VOL. NO. 46.

BOSTON, MASS., THURSDAY, OCTOBER 9, 1913.

PRICE TWO CENTS

DR. ROCKWELL TALKS ON PERSONAL HYGIENE

Athletic Advisor Gives Much Valuable Advice To the Freshmen.

Yesterday at 3 Dr. Rockwell gave an instructive address to the Freshman class concerning personal hygiene. In a few well chosen words he gave the new men some valuable advice about a very important matter.

Dr. Rockwell is a graduate of the Institute in the class of 1896. While here he was active in all school activities and especially in athletics, holding the record for the quarter mile.

This was the first of a series of four lectures. The next one is to be given in Huntington Hall at 4 P. M. Wednesday, October 15. All Freshmen are to attend these lectures.

SUMMER CAMPERS TO MEET.

Saturday Evening in The Union—Entertainment Promised.

Saturday evening at 8 P. M. a very interesting meeting will be held in the Union. This will be for those members of Courses I, III, and XI who attended the summer surveying camp at East Machias, Me. The gathering is for the purpose of having a general good time, and it will be the first of a series of reunions of the summer camp men.

The Professors and Instructors of these courses will be on hand and several of them will speak.

The entertainment will be of a good character and rather light. The refreshments will also be light, but delectable. "Pop" Wood will sing several solos in his usual manner, while McIntyre and McGuire, the black-faced comedians who were a feature of the camp minstrel show, will present a short skit which is alleged to be very humorous. Bob Schmucker will tell of the Miners' trip to Nova Scotia during the last week of camp.

Scully and Cooper will conclude the entertainment with several charming pianoforte selections.

Many photographs were taken at camp and all of them will be brought to the meeting and a number of them projected on the screen. Pickering, Assistant Art Editor of Technique 1915 took a group picture at camp, and this will also be shown.

F. C. Foote and G. T. Rooney are in charge of the affair, and the former says: "Splendiferous Eats."

ST. ANDREW CONFERENCE

There will be a conference of the Technology Chapter of the Brotherhood of St. Andrew next Tuesday at 7.15 P. M. The subject for the occasion is "Evolution and Christianity."

WEATHER

For Boston and vicinity: Probably rain; increasing easterly winds.

Several tests showed that the tensile strength of the sandwiches at the E. E. Reception was remarkably great.

RIFLE CLUB TO START PRACTICE NEXT WEEK

Election of New Officers at First Meeting—Match with Harvard Expected.

The Rifle Club will begin activities for the new term the first of next week and at a meeting, the time of which will be announced later, will elect officers for the new year and discuss plans for the coming indoor season.

This year the Rifle Team will again be affiliated with the Indoor League and the men expect to equal if not better their rating of last year, when the finished in fourth place out of a total of fourteen teams, only three matches being lost. The men on the Rifle Team of last year are all back in school with the exception of James S. Stewart, last year's team captain. Stewart shot all last summer with the Massachusetts State Team and with the American Team in international matches, and his loss will be keenly felt.

Practice for the team will be held two or three times every week and will be in the Armory again this year. A match with Harvard will probably be arranged for about the middle of November as a preliminary opening for the season.

If new men who are interested in the club and in rifle practice will leave their names and addresses at the Cage for the Rifle Club or for Greville G. Haslam '15, they will be notified of the time of meeting and other matters pertaining to the club.

JUNIOR NOMINATIONS

Names Must Be at Cage Before 5.00 O'clock Today.

Nominations for the officers of the Junior class for the following year are due today at the Cage at 5 P. M. There are eleven offices to be filled, and the more competition the better will be the results. All nominations must be signed by at least ten men of regular standing. Remember that all men who take part in the coming election must have all their class dues paid up.

HAMILTON NEW COLONEL

Others Officers of M. I. T. C. C. Are Announced—Chatfield Lt.-Col.

The officers of the M. I. T. Cadet Corps for the ensuing year were recently appointed. L. F. Hamilton will take the place of E. W. Taft '13 as Colonel. The latter is now assistant to Major Cole. C. H. Chatfield is the new Lieut.-Colonel and C. R. Gardner is the Regimental Adjutant. H. T. Bent, Captain of Company C last year, is now the Senior Major. Parry Keller, captain of last year's prize company is the other Major. The remaining officers will be announced in a later issue of THE TECH.

CHESS CLUB MEETING

The Chess Club will hold at 5 P. M. tomorrow in the Union for the election of officers for the ensuing year. Plans for this year's work will be laid out at this time and so all men who intend to join the club should be present.

COMBINED MUSICAL CLUBS HOLD MEETING

Outline of Trips for This Year Given—New Men Wanted For Various Clubs.

Thirty-five men attended the meeting of the musical clubs in the Union yesterday afternoon. This meeting was called to give new men an idea of what was expected of them and incidentally to give the leaders a line on the new material.

A new reader is wanted, as H. G. Mann, last year's reader, will be unable to take that place this year.

R. D. Salisbury, general manager, said that no western trip was possible this year, because the alumni feel that the money should go toward the new Institute. Nothing definite has been decided about the other trips, although one to Northampton is almost certain, and there will probably be trips to Springfield, Pittsfield and Newport, aside from the various short trips around Boston.

The Banjo Club needs a drummer also banjos and guitars. The Mandolin Club needs a large number of guitars although anyone who can play the mandolin should come to the trials. The Glee Club needs first tenors and second basses principally, but there is a good chance for anyone who can sing.

The trials for the Mandolin Club will be held at 4.15 today in the Union; those for the Banjo Club at 5 today and those for the Glee Club at 4.15 tomorrow.

INDUSTRIAL CONVENTION

Pennsylvania State Government In New Venture.

The new State Department of Labor and Industry in Pennsylvania is calling a convention to enable the heads of the state departments, engineers, manufacturers and industrial managers to discuss together topics of industrial welfare and efficiency and to suggest legislation and other means of bettering modern industrial conditions. As far as is known this is the first venture of this kind that has ever been made. The convention will be under the auspices of the Engineers' Society of Pennsylvania, who will also have charge of the Manufacturers' Exhibit to be held in connection with the convention. If the efforts of this convention are successful it is probable that inter-dependence of engineer and manufacturer will be more fully appreciated than ever before.

SOPHOMORE ELECTIONS

Nomination Papers Due Next Thursday—Ballot Committee Selected.

The nomination papers for the Sophomore class officers are due at 5 P. M. at the Cage a week from today. Papers signed by at least ten men are to be made out for the following officers: President, Vice-President, Secretary, Treasurer, two men to the Executive Committee, two to the Institute Committee and two to the Athletic Association. Every Sophomore who has as yet not paid his class dues should do so before next Thursday in order to entitle him to vote for these officers. The Ballot Committee has been selected and will be ready before the papers are due.

ELECTRICAL ENGINEERS HOLD FIRST MEETING

Profs. Jackson and Pender Address Large Gathering in Union Last Night.

Last evening at 8 o'clock the Electrical Engineering Society held its first smoker of the year in the Union. Pres. H. B. Richmond spoke a few words and then introduced Prof. Wickenden, who spoke a few words about the Society. He emphasized the successful manner in which the Society carried on its own affairs and then turned his attention to the importance of professional societies. He said that practically all the big men belonged to some engineering society and suggested that the best time to join one was now. Prof. Wickenden has always shown much interest in the Society even to the extent of taking time from his lectures.

Prof. Jackson, the head of the Electrical Engineering Department, was next introduced and spoke of the relation of the Society to Course VI. The work in the Course is mostly devoted to the reasons of things in electrical work and the practical is not so well taken up. Practical knowledge is gained by the use of eyes and ears, and here the work of the Society comes in, for it is from the speakers and the trips that this is gained. Boston, he said, is an ideal place for the location of a technical school, because so many big engineering organizations are situated here. Contrary to the opinion of many the field of electrical engineering is increasing and advancing much faster than thirty years ago. The (Continued on page 2.)

INSTITUTE COMMITTEE

Meetings on Friday in 8 Eng. C—Many Discussions.

The Institute Committee will hold a meeting at 4.15 Friday in 8 Eng. C. This will be a very important meeting as there is a great deal of business to conduct. The standing committees will give their reports. There will also be a discussion as to the need of a calendar committee, as well as the discussion of plans for Tech Night. The undergraduate member of the advisory board to THE TECH will be elected. The attendance of every member of the Institute Committee is desired at this meeting.

CALENDAR

Thursday, October 9, 1913.

- 1.30—T. C. A. Talk—Union.
 - 4.00—Both Relay Teams—Field.
 - 4.00—Tug-of-War—Gym.
 - 4.00—1916 Football—Oval.
 - 4.15—Mandolin Clubs—Union.
 - 5.00—Banjo Club Trials—Union.
 - 5.00—1915 Class Nominations Due.
- Friday, October 10, 1913.**
- 4.15—Institute Committee—8 Eng. C.
 - 4.15—Glee Clubs' Tryouts—Union.
 - 5.00—Chess Clubs—Union.
 - 8.00—Cosmopolitan Club Reception—Union.

Saturday, October 11, 1913.

- Afternoon—Hare and Hounds Run—Hole Park.
- 5.00—Senior Nominations Due—Cage.

THE TECH

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THURSDAY, OCTOBER 9, 1913.

The lack of support given THE TECH by the student body in the matter of bringing "live" news has just been brought forcibly to our attention. We have learned, quite by accident, of two news items which, while not of any vital importance, would have added something to the interest of the paper had they but come in on time; yet of the numerous Tech men who knew of the occurrence of each event, not one took the trouble to ascertain whether THE TECH had received the information. The occurrences we refer to are the breaking of the rope (whether the new one or the old, deponent saith not) at the Freshman tug-of-war practice two days ago, and the talk on personal hygiene given yesterday afternoon to the Freshmen by Dr. J. A. Rockwell, the new medical advisor of the Institute. THE TECH did not learn of the latter event until too late to run an advance notice.

THE TECH comes before our alumni and friends and the other college men of the country, as the organ of the students of the Institute. Its reputation is their reputation, its honor, their honor. Then why will they not take a little trouble once in a while to add to its quality, be it ever so slightly? It is manifestly impossible for the few busy men on the news staff to know beforehand of every thing of interest that occurs; in order to bring THE TECH up to what the M. I. T. paper ought to be we must have the support of the student body in general.

FINANCE COMMITTEE DINNER

Tonight, at 6.30, in the Union, there will be a dinner for the members of the Finance Committee. A meeting will follow the dinner at 7.30, at which the reports to October 1, 1913, of treasurers of all Institute activities will be read. It is important that class treasurers, and any treasurer who has not yet turned over his accounts, be present. Those who cannot attend the dinner are requested to notify Hadley, 14, at the Cage before noon. The price will be fifty cents.

DR. G. A. CRAWFORD TO BEGIN T. C. A. TALKS

Retired Chaplain of U. S. N. Will Speak on "Why Doesn't God Forgive Everyone?"

This noon, at 1.30, in the Union, the Freshmen will be given their first opportunity to hear one of the weekly talks held by the Technology Christian Association. In the last few years these talks have held a very important place in undergraduate life at the Institute, and they received such support that it was well worth while to continue these weekly meetings in the Union. As a result, they have become firmly established in Institute life and they are looked forward to by many Tech men.

Dr. George A. Crawford, Chaplain, U. S. N. (Retired), will hold the distinction of being the first speaker for the T. C. A. meetings this year, and he will speak on the subject: "Why Doesn't God Forgive Everyone?" This will not, however, be the first time that Rev. Mr. Crawford has spoken at Technology, for he will be well remembered by many men who heard his talk last year on "An Unanswerable Argument."

The T. C. A. is in hopes that the Freshmen, as well as the upper classmen, will attend these Thursday noon meetings in large numbers, and will thereby give the Association their support. Today's talk will be given at 1.30 in the Union as usual.

E. E. SOCIETY RECEPTION

(Continued from page 1.)

call for engineers is very great. To really get the most out of the Course here Prof. Jackson said that the men must do more than take the word of professors or the statements of text books. He must work things out for himself or later in life he will be merely among the driven cattle of a few big men. He must bear in mind that education is not the process of having facts driven in, but of simulating and sorting them for himself, or he is merely "a sewage disposal plant."

The officers of the Society have made arrangements with the Civil Engineering Society by which any member may attend lectures of that Society. A similar arrangement will probably be made with the Mechanical Engineering Society. The vice-president of the Society has not returned this year so the office is left vacant. Nominations for this office signed by ten paid up members are due Tuesday, October 14, at 4 P. M., and are to be left with Miss Payson in 14 Lowell.

H. C. Mason of the Entertainment Committee gave the following dates and speakers for future meetings:

Oct. 30—Smoker—Speaker, Mr. Hobart, General Electric Company.

Nov. 11—Smoker—Speakers—Mr. Morse of the Simplex Company and Mr. Bridges of the Tenney Service Company.

Nov. 16—Smoker—Speaker—Mr. Eldon of the Edison Company.

Jan. 9—Dinner, probably outside—Speaker—Mr. Brush of the Boston Elevated Railway Company.

L. L. V. Travis of the Excursion Committee spoke of various trips to be made at least every two weeks and as often as the fellows will get together. Among the places to be visited are Lincoln Wharf, Elevated Power Station, Simplex Electric Company, Cambridge; General Electric Works, Lynn; and the Fore River Ship Yards in Quincy. Last year a trip to Niagara was proposed, but did not go through and the matter was again brought up.

Prof. Pender suggested a trip to Philadelphia and L. H. Webber spoke

(Continued on page 4.)

REGISTRAR ADOPTS NEW NUMBER SYSTEM

Subjects Arranged so That Their Numbers Show Classification

The Registrar has installed a new system of numbering the courses this year, which is constructed on the principle that the number of each subject shall convey some information about the subject itself. The figure representing the hundreds in each new number or the letter placed before the number indicates the general classification of the subject, either by course or department. The tens' figure shows in what year the subject comes, and the last figure shows in what term it is given. If it comes in the first term the unit figure is odd; if in the second term, even. The system is not, however, rigidly followed out. In some of the course numbers it has been found impossible to make every figure correspond to the system:

New Numbers	Old Numbers
D 15.....	101
E 15.....	141
D 16.....	103
D 18.....	105
M 20.....	24
E 21.....	150
H 21.....	173
M 21.....	30
L 21.....	221
D 21.....	107
M 22.....	31
M 23.....	32
D 23.....	108
M 23.....	32
M 25.....	35
M 26.....	33
1.....	1
2.....	3
3.....	3
4.....	4
5.....	5
6.....	6
7.....	7
8.....	8
E 10.....	9
M 10.....	23
E 11.....	140
L 11.....	220
M 11.....	20
D 11.....	100
H 12.....	170
M 12.....	21
D 12.....	102
D 14.....	104
M 31.....	40
L 31.....	221
E 31.....	156
Ec 31.....	190
D 31.....	110
E 32.....	157
D 32.....	111
M 32.....	38
L 33.....	223
E 33.....	160
Ec 33.....	191
Ec 34.....	194
H 34.....	176
L 34.....	224
L 35.....	225
E 35.....	143
H 35.....	177
Ec 36.....	195
M 36.....	36
E 36.....	144
H 37.....	183
E 37.....	145
M 37.....	37
M 38.....	42

New Numbers	Old Numbers
Ec 38.....	196
H 38.....	181
E 39.....	147
M 39.....	41
H 39.....	185
L 41.....	231
D 41.....	112
Ec 41.....	193
L 42.....	231
D 42.....	116
Ec 43.....	198
L 43.....	233
D 43.....	117
L 44.....	234
D 44.....	118
M 45.....	43
L 45.....	235
D 45.....	119
L 46.....	236
M 51.....	45
M 52.....	46
H 52.....	186
M 53.....	44
M 56.....	50
M 57.....	51
M 58.....	52
M 61.....	53
L 62.....	241
M 62.....	54
M 63.....	55
M 65.....	59
M 67.....	56
M 69.....	57
M 71.....	58
L 71.....	251
L 72.....	252
L 73.....	253
L 74.....	254
L 81.....	260
L 91.....	270
100.....	300
101.....	300
102.....	305
107.....	301
108.....	306
109.....	303
111.....	311
112.....	307
113.....	308
120.....	315
121.....	313
123.....	316
125.....	319
126.....	321
127.....	323
128.....	322
130.....	314
134.....	317
140.....	345
141.....	346
143.....	352
144.....	353
145.....	347
148.....	349
149.....	348
150.....	350
151.....	351
153.....	355
154.....	356
156.....	357
158.....	358
160.....	312
162.....	330
163.....	331
164.....	332
165.....	340
168.....	341
169.....	336
170.....	333
172.....	342
173.....	343
175.....	334
176.....	335
179.....	337
181.....	344

(Continued on page 3.)

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REGISTRAR'S NEW SYSTEM

(Continued from page 2.)

New Numbers	Old Numbers	New Numbers	Old Numbers
182	339	472	527
195	302	473	528
197	325	474	529
199	359	481	536
200	360	482	533
201	364	483	534
204	365	491	534
206	372	492	539
207	374	501	550
208	377	502	551
209	378	503	562
215	60	504	623
216	65	511	552
217	66	512	558
218	67	513	559
219	69	514	553
220	69	515	597
*221		520	565
225	70	521	567
*226		522	568
227	74	525	571
228	75	526	649
229	80	527	573
230	86	530	529
231	97	531	638
233	90	532	639
235	77	533	449
236	78	534	535
237	79	535	560
238	87	536	528
239	88	537	594
243	401	550	590
245	385	551	592
246	386	552	524
247	387	553	593
250	388	556	598
251	389	557	599
252	390	558	591
253	391	560	600
254	392	565	610
255	417	566	611
256	413	567	618
257	414	570	519
260	396	575	580
261	397	576	584
262	398	577	581
263	399	578	583
266	403	579	585
267	404	580	586
268	405	581	586
270	406	582	588
272	400	583	589
274	409	585	640
275	410	587	582
277	420	590	601
278	421	591	645
279	422	582	646
280	424	593	647
301	430	594	648
302	458	700	708
303	459	701	700
304	459 _a	702	701
311	460	703	735
312	461	704	716
313	452	710	717
321	432	711	722
322	433	712	723
331	442	713	718
332	443	714	720
334	452	720	725
341	453	721	726
342	454	722	727
343	455	723	729
347	456	724	738
349	457	730	744
351	435	731	748
352	436	733	747
356	437	734	728
361	465	735	745
411	470	736	755
412	471	737	759
421	480	738	762
422	488	739	763
431	495	740	749
441	490	741	768
442	491	750	757
443	492	751	765
451	515	752	752
452	516	753	753
453	520	754	754
461	522	755	758
462	523	756	756
471	526	758	760
		760	766
		761	769

(Continued on page 4.)

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(Continued from page 3.)

New Numbers	Old Numbers
*762.....	
*763.....	
770.....	764
771.....	750
772.....	751
780.....	704
781.....	734
790.....	761
801.....	770
802.....	771
803.....	772
806.....	773a
807.....	773
808.....	774
810.....	776
813.....	781
814.....	784
*815.....	
816.....	783
821.....	782
822.....	779
824.....	787
*825.....	
828.....	823
829.....	824
831.....	814
833.....	891
841.....	790
842.....	791
843.....	808
844.....	829
*848.....	
849.....	807
*852.....	
855.....	838
860.....	836

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New Numbers	Old Numbers
861.....	815
862.....	816
863.....	817
864.....	813
865.....	804
866.....	831
867.....	805
868.....	832
869.....	833
870.....	812
871.....	811
*881.....	
882.....	795
883.....	797
886.....	799
887.....	800
888.....	801
889.....	805
893.....	803
896.....	802
897.....	798
*898.....	
1201.....	840
1202.....	841
1208.....	845
1211.....	895
1215.....	844
1221.....	842
1223.....	843
1225.....	845
1231.....	855
1232.....	856
1234.....	857
1237.....	858
1238.....	875
*1252.....	
1253.....	859
1254.....	860
1246.....	892
1259.....	861
1262.....	560
1264.....	870
1265.....	871
1267.....	873
1271.....	878
1273.....	880
1275.....	883
1277.....	884
1291.....	890
1294.....	897
1296.....	895
1301.....	901
1302.....	902
1305.....	925
1311.....	915
1312.....	916
1313.....	917
1321.....	920
1322.....	921
1323.....	922
1331.....	900
1332.....	904
1333.....	928
1341.....	909
1342.....	910
1343.....	911
1351.....	913
1352.....	912
1361.....	914
1365.....	923
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1381.....	930
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620.....	650
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622.....	673
630.....	677
631.....	667
632.....	670
633.....	675
634.....	674
635.....	671
636.....	672
637.....	678
650.....	679 a, b.
651.....	652 a, b.
652.....	701 a, b.
653.....	681 a, b.
654.....	696 a, b.
657.....	654

New Numbers	Old Numbers
658.....	698
659.....	697 a, b.
667.....	652
676.....	653 a, b.
677.....	661
678.....	658
691.....	689
692.....	688
693.....	695
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Courses marked * are new this year.

E. E. SOCIETY RECEPTION

(Continued from page 2.)
 of his experiences on this trip which he took a couple of years ago. It took a week and was well worth the time and expense according to his estimation. The party of which he was a member visited the electric works of the New Haven road, the Edison Waterside Stations in New York and then went to Harrison, New Jersey, where they visited the General Electric Company plant and saw the method of making lamp filaments and also motors and dynamos. They also visited the Crocker & Wheeler Company, the Hudson Manhattan Power Company, New Jersey, the Bell Telephone Company, the Interborough Transit Company plant and the N. Y. C. Power Station at Fort Morris. The trip was considered a very enjoyable one and Webber recommended it for consideration as a mid-year trip.

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Prof. Pender was next introduced and spoke of the newly established course, the Research Division of the Electrical Engineering Course, of which he is the head. He began with a definition of "research." "Research," he said, "is the search for economy." Many claim that it is the search for truth, but Prof. Pender defended his statement on the ground that the truth was always used for economizing time, matter, energy or thought. Unless this is the object it is not research, for counting the bricks in a sidewalk is searching for the truth, but is not research. "Any thing," he said, "which leads to economy is a fit subject for research." The department has been guaranteed funds for five years to carry on research work, one of the subjects being "The Splitting of the Nickel" in reference to economy in street railroad expenses. Another is in connection with the altering of tones while being transmitted over the telephone.

Prof. Pender said: "All this helps the student in that it brings the student in touch with research work and gives him an opportunity to get the spirit of research work. Furthermore any student is welcome to come around and see how the work is carried on and may take a part in it.

After the speakers, refreshments were served in the small rooms, after which the secretary collected the dues. About seventy new men were admitted to the Society.



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