

# The Daily Princetonian

VOL. XXXVII, NO 143

PRINCETON, N. J. THURSDAY, DECEMBER 18, 1913

PRICE THREE CENTS

## TALK BY YALE GRADUATE IN MURRAY-DODGE HALL

Reverend Robert S. Smith to Be  
Speaker at Philadelphian So-  
ciety Meeting To-Night

### TWO ASPECTS OF LECTURE

Example Set by "The Ministry of  
Christ as a Prophet" and  
Duty It Devolves

The Reverend Robert Seneca Smith, Pastor of the First Congrega-  
tional Church of Poughkeepsie, N.  
Y., will address the Philadelphian So-  
ciety to-night in Murray Hall at 7:10  
on the "Ministry of Christ as a  
Prophet". Dr. Smith has spoken in  
Princeton before and his simplicity  
and directness of speech made a last-  
ing impression on all who heard  
him.

Dr. Smith is a graduate of Yale  
University, where he held for two  
years the position of General Secre-  
tary of Dwight Hall. After his gradu-  
ation and two-years service as Grad-  
uate Secretary of Dwight Hall, Dr.  
Smith took several years in seminary  
work to further fit himself for his  
life work in the ministry. His first  
charge was in assisting Dr. Bradford,  
of Montclair, especially in the work  
for the young people of the church.  
From here he was called after a few  
years to the position of pastor of the  
First Congregationalist Church, of  
Poughkeepsie, where he has remained  
to the present time.

### Two Points of View

In discussing the subject of "The  
Ministry of Christ as a Prophet", Dr.  
Smith will take it up from two points  
of view: First, the example which,  
Christ himself set us in his foretell-  
ing of the better life to come; and  
secondly the duty which devolves  
upon the ministers of his work to do  
likewise.

## MR. O. A. HAYES TO LECTURE ON GEOLOGICAL SURVEY

Mr. A. O. Hayes, of the Canadian  
Geological Survey Service, will ad-  
dress the Geological Journal Club  
this evening at 8 o'clock in 309 Guyot  
Laboratory, his subject being "The  
Geology of the Vicinity of St. John's,  
New Brunswick, Canada".

Mr. Hays is well known in geologi-  
cal circles both in Canada and the  
United States, having several times  
taken charge of geological expedi-  
tions in the remote districts of Can-  
ada. Recently he has been carrying  
on a survey in the vicinity of St.  
John's, New Brunswick, Canada, and  
it is the observations he made there  
which he will describe to his audi-  
ence.

### Prickett Chosen Rhodes Scholar

William Prickett 1915, of Wilming-  
ton, Delaware has been chosen  
Rhodes Scholar from the State of  
Delaware.

### Library Open During Holidays

During the Christmas Holidays the  
University Library will be open on  
week days from 8 a.m. till 1 p.m. but  
will be closed on Sundays and on  
Christmas Day.

### UNIVERSITY NOTICES

Triangle Club—Cast, chorus, and  
orchestra report at Casino at 6.45.

Pittsburgh Club—All men desiring  
to leave Pittsburgh at 9.40 p.m., Mon-  
day, January 5, and arrive at Prince-  
ton 7.45 Tuesday leave their names  
and city addresses at 51 L., some-  
time to-day. Those leaving their  
names will be notified if arrangement  
can be made for this connection.

Soccer—No game to-day with Mor-  
ristown School.

Student's Express—Will handle  
trunks on Friday and Saturday.  
Leave orders at University Store.

## NOVICE WRESTLERS HOLD FIRST MEET TO-NIGHT

Entries Open Till 6 O'Clock—Meet  
Begins at 7.45

The first of a series of three wrest-  
ling meets will be held on the main  
floor of the gymnasium to-night be-  
ginning at 7.45 o'clock. It is open  
to all those who have not wrestled  
on the Varsity team nor won pre-  
vious wrestling meets. Silver medals  
will be awarded to the winners of the  
series. The series will be held on  
six different nights.

Twenty-six men have signified  
their intention to enter the meets, but  
entries are still open. All names  
must be handed to Coach Peterson  
before 6 o'clock to-night. The fol-  
lowing men have entered:

115 pounds—1916—E. J. Frazier, S.  
L. Phraner, E. A. Nebeker, J. Van  
Buren; 1917—J. Horn. 125 pounds—  
1914: K. Bonner; 1915: N. Culolias,  
F. D. Parsons; 1916: A. M. Loeb, L.  
B. Walton. 135 pounds—1916: A. G.  
Kennedy, M. A. Tancock, C. L.  
Woodbridge; 1917: H. W. Cohn. 145  
pounds—1916: A. M. Frantz; 1917: A.  
R. Knott, O. Page, R. G. Schmertz,  
W. Ruckeyser. 158 pounds—1914: E.  
R. Sampson; 1915: J. B. Anderson, J.  
P. Knott; 1916: D. R. Demaree, G.  
Gillespie. 175 pounds—1914: K. E.  
Stockton, W. Swart.

## T. FISKE 1914 RESIGNS AS MUSICAL CLUBS' MANAGER

H. A. Laughlin 1914 to Succeed Him  
—Proposed Change in Man-  
agerial Elections

At a meeting of the combined Mus-  
ical Club yesterday afternoon, an-  
nouncement was made of the resig-  
nation of Manager T. Fiske 1914 and  
of the election of H. A. Laughlin, jr.  
1914 to succeed him. Fiske explained  
to the members of the club that he  
had resigned because he felt that  
track work has made it impossible  
for him to devote the necessary time  
to the Musical Clubs.

The next order of business was the  
proposal of a change in the method  
of election of Assistant Manager.  
Laughlin explained that the Execu-  
tive Committee had gone over the  
matter carefully and had decided that  
the best results could be obtained  
through holding a competition.

### Laughlin's Proposal

He said, "The Committee has de-  
cided that it would be a great ad-  
vantage to the Musical Clubs if  
some method could be found whereby  
a man's ability to fill the position  
could be ascertained before the elec-  
tion. We think that the best method  
of doing this would be to have the  
members of the combined clubs nomi-  
nate men for a competition for the  
office. If more than four men are  
nominated the election should be  
held at once and the four receiving  
the greatest number of votes should  
be accepted as competitors. These  
men would report to the Manager  
and would be assigned work to do  
such as writing letters, arranging  
about tickets, etc.

### Nominees Chosen on Merit

"At the close of the competition—  
the length of which this year will be  
decided by the Executive Committee  
—the Manager will make report to  
the Committee, telling what the com-  
petitors have done. The members of  
the committee will then vote in the  
order of their choice for Assistant  
Manager, and the man receiving the  
largest number of votes will be elect-  
ed. In the event of something pre-  
venting the man elected from accept-  
ing the office, or in the event of his  
resignation, the man receiving the  
next highest number of votes will au-  
tomatically become Assistant Man-  
ager, or Manager if the resignation  
occur during Senior year. In case of  
the latter's resignation the third man  
will be given the office and so on."

There being no quorum the new  
plan was not put in the form of a  
motion before all the members of the  
Clubs, but was adopted by the Exec-  
(Continued on Fourth Page)

## BASKETBALL TEAM FINDS ST. LAWRENCE FIVE EASY

Scores 46 Points to Opponents 7—  
Visitors Shoot Only Two  
Field Baskets

### FOULING PLENTIFUL

Unfamiliarity With New Rules Re-  
sults in Frequent Penalties—  
Princeton's Passing Improved

The Varsity Basketball team com-  
pletely outplayed the St. Lawrence  
five last night in the gymnasium, win-  
ning in easy fashion, score 46-7. The  
game was marred by constant foul-  
ing, the players on both sides show-  
ing their unfamiliarity with the new  
rules.

The team play of the Varsity was  
the best shown this season. The  
men passed quickly and accurately  
and worked together very well. Per-  
haps the best work of the game was  
that done by the guards who shut out  
the opposing forwards without a field  
goal in the first half. The game was  
featured by the work of Jackson at  
right forward, who shot 10 field goals,  
several on difficult chances. Captain  
Canfield, for the visitors, played a  
good game at guard, but received lit-  
tle support from his team-mates.

### Princeton Gets the Jump

Princeton started off with a rush  
and scored five field goals and one  
from foul in rapid succession on shots  
by Jackson and Salmon. Feree was  
detected holding and Roundy shot the  
foul. The visitors could do nothing  
with the strong attack of the Varsity  
and the first half ended with the  
score 31-3.

Jackson opened the second period  
by caging a pretty goal and Salmon  
shot a foul. Feree followed this with  
a long shot and Salmon scored again  
when Canfield was penalized for  
holding. J. Baker substituted for  
Jackson and shot two field goals  
from directly under the basket. Sub-  
stitutes were put in at this period for  
all the players except Schmidt, and  
the scoring was somewhat slowed up.  
The men covered up well, however,  
Canfield being the only visitor to reg-  
ister a field goal. O'Kane made the  
last shot of the game, getting free  
from scrimmage.

### The Line-up

Princeton—rf, Salmon; rg, Gill; lf,  
Salmon; lg, Feree; c, Schmidt.  
St. Lawrence—rf, Wheeler; rg,  
Canfield; lf, Roundy; lg, McMonagle;  
c, Clemens.

Substitutions—Princeton: J. Baker  
for Jackson, O'Kane for Salmon,  
Voorhees for Gill, Dinsmore for  
Feree. St. Lawrence: McGinnis for  
Clemens, Griswold for McMonagle.

Summary—Field Goals. Princeton:  
Jackson, 10; Salmon, 2; Schmidt, 1;  
Gill, 2; Baker, 2; O'Kane; Feree. St.  
Lawrence: Canfield, Griswold, 8.  
Foul Goals—Princeton: Jackson, 3;  
Salmon, 3; O'Kane, 2. St. Lawrence:  
Roundy, 3. Umpire—H. S. Mellick.

### President Hibben On Honor System

The Yale News published, recently,  
an article on "The Princeton Honor  
System", written by President Hib-  
ben.

### UNIVERSITY NOTICES

1916 Basketball—Meeting of cap-  
tains of teams entered in tourna-  
ment to arrange schedule, 4.30 in  
gym.

Sophomore Bible Class—Professor  
S. H. Miller will be unable to meet  
his class to-night.

Water Polo—Practice at 5.

Seniors—All those who have not  
redeemed their tickets for the Senior  
Dinner see F. W. Gardner at once.

Tiger—All contributions for Janu-  
ary Number must be in at office by  
January 6.

Brac-a-Brac—Artists' designs will  
be returned to owners at 122 Little.

## PRINCETON HOCKEY TEAM MEETS ST. PAUL'S TO-NIGHT

School Team Is Reported to Be Fast  
—First Varsity Game

The Princeton hockey team will  
open its season this evening at 8  
o'clock by a game against the St.  
Paul's School at the St. Nicholas  
Rink, New York. It is reported that  
the school team this year is equal to,  
if not stronger than that of last year,  
which defeated Yale. Most of the  
players on the team, however, are  
either new men or last year's substi-  
tutes.

St. Paul's possesses a great advan-  
tage over Princeton in the fact that  
it has wonderful facilities for skat-  
ing. With its 14 rinks and cold cli-  
mate the school team can start prac-  
tice much earlier and have it more  
frequently than the Varsity. All the  
practices the Princeton team has are  
held in New York. This disadvan-  
tage is however, offset by the experi-  
ence and brilliancy of the University  
players. In Baker and Kuhn, Prince-  
ton has the fastest pair of forwards  
in the East. The vacancy at the left  
wing by the graduation of R. W.  
Patterson will be filled by R. B. Pea-  
cock 1916.

The Princeton line-up: Winants,  
g; G. Peacock, cp; Emmons, p; Ba-  
ker, r; Kilner, rw; Kuhn, c; R. B.  
Peacock, lw.

## FACULTY PERFORMANCE OF TRIANGLE SHOW TO-NIGHT

Initial Appearance of "The Pursuit  
of Priscilla" in Casino—Com-  
pany Includes 74 Men

The Faculty performance, which is  
the first appearance of the Triangle  
Club's show, "The Pursuit of Pris-  
cilla", will be held this evening at 8.15  
o'clock in the Casino. Seats may be  
bought at Briner's for one dollar.  
There will be no reserved seats.

### The Cast

Col. Bottlestar, Proprietor of the  
Apache House ....J. M. Smith '15  
Cecil Pennybroke, from across the  
water .....J. B. Pitney '14  
Blanche Moliere, once famous on  
Broadway .....W. M. Ellis '15  
Mrs. Moliere, who strives to be re-  
fined .....J. A. Swineford '16  
Kitty, Bottlestar's daughter.....  
.....P. D. Nelson '17  
Jack Vreeland, who pursues art for  
a living .....A. L. Haskell '16  
Gopher Hole George, Sheriff of  
New Mexico .....T. C. Nevins '14  
Cotton Wood Charlie, Sheriff of  
Arizona .....C. L. Heyniger '16  
Chuck Wagon Cassidy, Sheriff of  
Colorado ....E. B. Jermyn, Jr., '15  
Gladys McGuiness, headwaitress of  
the Apache House.C. B. Hunter '14  
Jose Maria, Mexican cowpuncher..  
.....J. W. Bailey, Jr., '15  
Tong, a Celestial dishwasher.....  
.....J. C. Hughes '14  
Tom, secretary to Priscilla.....  
.....J. H. Legendre '14  
Harry, secretary to Priscilla.....  
.....W. M. Barr '15  
Duchess of Clover, Priscilla's Aunt  
.....T. Martin '17  
Priscilla .....H. P. Elliott '14  
Chorus (girls): 1914—J. B. Black-  
burn, F. S. Dunn, P. V. Kellogg, P.  
D. McMaster, G. T. Richards, Jr.,  
G. Watson. 1915—D. D. Griffin, E.  
S. Hammond. 1916—A. W. Talley.  
1917—L. S. Fowler H. R. Garside, A.  
L. McKaig, K. Wales.  
Chorus (men's): 1914—C. V. Arm-  
strong, A. C. M. Azoy, F. N. Bolton,  
J. Bruce, E. E. Bunzel, W. J. Hud-  
son, J. H. O'Neill, S. Pitney. 1915—  
T. Emery, J. A. Q. Franks, J. Hemp-  
hill, C. C. Hilliard, J. C. Kennedy, A.  
B. Longstreth, O. S. Putnam, E. M.  
Roberts, M. M. Spencer. 1916—N.  
Biddle, W. Lloyd-Smith. 1917—T.  
Clarkson.

### Orchestra

F. H. Dyckman 1914, leader; First  
Violins—W. J. Wolf 1914, A. M. Kid-  
der 1915, N. D. Keller 1915, L. E.  
Morris 1915, O. Mandel 1916, W. J.  
Hayward 1917. Second Violins—C.  
E. Goldsmith 1914, W. Prickett 1915.  
(Continued on Fourth Page)

## ELECTRICAL DISCOVERIES OF PROF. JOSEPH HENRY

Dean Magie Gives Detailed Account  
of Inventor's Researches in Scien-  
tific Lecture Last Night

### WORK IN PRINCETON

First Operator of Telegraphic Circuit  
and Almost Recognized Dis-  
coverer of Self-Induction

Dean William F. Magie wrote the  
following brief of his lecture on "Jos-  
eph Henry's Work in Electricity and  
Magnetism", the fifth of the scientific  
series, which was delivered last night,  
for the PRINCETONIAN:

The scientific work of Joseph  
Henry should always be of interest  
to Princeton men. Between the  
years 1832 and 1846 he was a pro-  
fessor in the College and most of  
the discoveries by which he is now  
distinguished were made in that pe-  
riod. He began his work at Albany,  
when he was a teacher in the Acad-  
emy for five years.

Henry's first important contribu-  
tion to science was made in 1831,  
when he greatly improved the elec-  
tromagnet and investigated its pecu-  
liarities. Before that time the elec-  
tromagnet was made by bending a  
bar of iron into a horse-shoe form,  
covering it with shellac or sealing  
wax and winding around it a few  
turns of bare wire, through which the  
current was sent. Such magnets did  
not excel in lifting power the ordi-  
nary steel magnets and could not be  
used for many purposes for which  
the steel magnets were not equally  
applicable. Henry's improvement  
consisted in using covered wires for  
winding, so that a great many more  
turns of wire could be taken around  
the iron cores and the wires laid  
closer together. By using this meth-  
od of construction and increasing the  
thickness of the iron cores. Henry  
was able to make magnets which lift-  
ed many hundred pounds. One of  
these great magnets he made for  
Yale University. Another is in the  
museum at Princeton.

### First Telegraphic Circuit

When Henry attempted to excite  
his first magnets by a current sent  
through a long external conductor,  
he found that the effect shown by  
them was very feeble. His investi-  
gations led him to construct two  
kinds of magnets: one, wound with  
a few turns—comparatively speaking  
—of coarse wire, could be powerfully  
excited by a current from one or two  
large cells through a short external  
circuit. This type he called the quan-  
tity magnet. The other, wound with  
a great many turns of finer wire, was  
very little affected by one cell, but  
could be sufficiently excited even  
through a long external circuit by a  
battery containing a number of cells  
in series. This type he called the in-  
tensity magnet. The intensity mag-  
net is used to-day in the telegraphic  
relay, while the quantity magnet  
operates the sounder by which mes-  
sages are delivered. A complex cir-  
cuit of this sort, in which an intensity  
magnet was operated in a long cir-  
cuit so as to close another short cir-  
cuit containing a quantity magnet,  
was constructed by Henry very early  
in his experiments. He certainly had  
an electromagnetic signal circuit, es-  
sentially a telegraphic circuit, operat-  
ing around the walls of his lecture  
room before he left Albany in 1832,  
and a similar circuit was set up,  
when he came to Princeton, across  
the campus from his laboratory in  
the building, which stood where the  
Chancellor Green Library now stands,  
to his study in the house now occu-  
pied by Dean McClenahan. This cir-  
cuit was in operation for years before  
the electromagnetic telegraph was  
developed for public uses.

### Discovers Self-Induction

Henry just missed recognition as  
the first observer of the induced cur-  
rent by accidents of time and circum-  
stance. He observed the effect in the  
late summer of 1831 but set his re-  
(Continued on Third Page)



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H. K. Kwong

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Thursday, December 18, 1913

To the Editor of the PRINCETONIAN:  
Dear Sir:

There appeared in yesterday's PRINCETONIAN a communication in regard to the enforcement in this community of the State law suppressing drinking by minors. It is perfectly possible to argue the proposition, set forth by the writer of the communication, on grounds of expediency, but suffice it to pass but a single remark on that point. The writer of the communication said that it was his opinion that "the College would turn out better balanced men if Seniors, and possibly Juniors were freed from every restriction not imposed by the curriculum,—including chapel and cuts". Then there seems to be no reason for stopping at the suspension of only one State law. If the removal of restrictions is going to help the college turn out better balanced men and the suspension of the State law suppressing drinking on the part of minors is going to materially aid it, it would seem highly desirable that other State laws,—e.g. those against bigamy and arson,—be regarded as inapplicable to Princeton upperclassmen.

The PRINCETONIAN spent some time commenting on the communication and towards the end of its article announced the principle tacitly assumed in the communication,—i.e. that the Dean and the College as a whole should countenance violations of the law. Not that the University should forbid anyone to drink, but merely discriminate in the use of the law. Discrimination in the use of the law,—the promulgating of such a sentiment by the publication of the undergraduates of a University, the professed aim of which is to turn out good citizens of the republic, furnishes a bit of food for thought. Princeton men have always been proud of the record of Princeton in the affairs of the Republic. On every public occasion in which Princeton occupies a prominent position, the phrase "Princeton in the nation's service" is used oftener than any other. And still, among ourselves we propose that the officials of the University shall blink at violations of the law of the State, and that a most pernicious lesson in citizenship be given the undergraduates. Actions disloyal to the nation and destructive of the well-being of any government are

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proposed, because, forsooth, some young men under twenty-one years of age wish to indulge their tastes for intoxicants.

The Dean has no power either to interpret the law or to discriminate in its application, and proposals that he so act are among the most pernicious possible. On the other hand, his moral obligation is of the most pressing sort, and if it be true that "The law has been invoked not through any particular love of New Jersey justice, but to serve the College" the Dean has been working from false motives and it is most seriously at fault. The undergraduates of the great American universities are expected to be the future leaders of the nation. When such future leaders not only tacitly assume that the law can be disregarded, but deliberately propose that it be disregarded, it would seem that the phrase "future welfare of the Republic" is a misnomer.

ANOTHER SENIOR.

It is queer how the good citizens sometimes keep in the background. There is just a bare possibility that this law was on the statutes when Mr. Wilson was a resident of Princeton. Still times are changing and the citizen of the future must certainly uphold the law. There is nothing like rushing in at once. Let's have a couple of preceptors stationed at the head of Prospect Ave. to see that no one rides bicycles on the pavement; a couple of official university inspectors on Nassau Street, to see that no tobacco-emitting undergraduates spoil the beauties of the sidewalks; a real live detective to find what lads under 18 smoke cigarettes, with enough circumsppection to trace a Rameses butt to the very drug store where it was sold. The law must be obeyed. And then as the writer of the communication points out why not have a Faculty Committee appointed to investigate cases of arson and bigamy—you never can tell what these young College men may do!

#### Yale Defeated in Debate

Syracuse defeated Yale in a recent debate on the question: "Resolved, That the States should enforce the minimum wage of eight dollars per week for women and six dollars per week for children, it being agreed that these amounts are necessary for a fair standard of life."

#### Walker-Gordon Milk

Free deliveries in Princeton. You are invited to visit the producing plant on the Princeton and Cranbury road; a three mile walk from the campus.

IF YO GO EARLY  
LEAVE YOUR ADDRESS  
AND  
HAVE THE TRIANGLE SCORE  
MAILED TO YOU  
THE PRINCETON UNIVERSITY STORE

## FOR CHRISTMAS - What to get and Where

Here's a Holiday Gift-directory for people Present perplexed. A brief and convenient compilation of serviceable and sensible presents. All from a Man's Shop-fixings for those near and dear—the gift-problem is solved without any worry.

## Popular Presents to Please Particular People

Traveling Bags  
Military Brushes  
Collar Bags  
Toilet Cases  
Pocket Books  
Jewel Cases  
Bridge Sets  
Wallets  
Desk Clocks  
Tie Cases  
Library Sets

Suit Cases  
Silver Drinking Cups  
Cigar Cases  
Whiskey Flasks  
Poker Sets  
Ash Trays  
Tie Racks.  
Bill Folds  
House Coats  
Dressing Gowns  
Safety Razor Sets

PRINCETON CHINA: This famous and artistic line of beautiful pieces offers something in the gift line that is *obtainable nowhere else*—just the thing to take "back home" with you.

Other suggestions aplenty, in which the quality will make for a long and cherished remembrance.

THE GULICK COMPANY - Upper Pyne Building

If you like to wear your  
gloves long, wear

**FOWNES  
GLOVES**

They wear longer.

13

**Hotel  
Hermitage**  
New York City  
Opposite Times Square  
Broadway, 42nd. St. and 7th. Ave.  
Special Rate Card to Princeton  
Men on Application  
New and Absolutely Fireproof  
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A quiet, luxurious place in the midst of New York's rush and gayety is what The Hermitage offers. Handsomely furnished throughout, its splendid service, excellent restaurant and grill room and moderate prices, make an irresistible combination to people who know. A day's visit will be sufficient to make you a constant patron of The Hermitage.

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## ELECTRICAL DISCOVERIES OF PROF. JOSEPH HENRY

(Continued From First Page)

search aside because the room in which he worked was needed for the use of the school; and resumed it again only after he saw a notice of similar observations made by Faraday in the spring of the following year. Henry's method of procedure was different from Faraday's. A wire was coiled around the armature of his magnet, and its ends were joined to a galvanometer. When the magnet was excited the galvanometer needle was thrown to one side, indicating a temporary current in this circuit. When the current in the magnet was interrupted, the galvanometer showed a temporary current in the circuit in the opposite sense. Henry did not pursue this immediate subject further at this time, probably because he had been anticipated by Faraday, but he made the important observation that when a long circuit containing a battery of moderate power is broken, particularly if the wire of the circuit is wound in a coil, a spark appears at the gap, which does not appear if the circuit is short. This spark indicates the temporary current in the circuit known as the extra current or current of self-induction, which later Faraday, as well as Henry, explained by the inductive action on the circuit itself of the varying current in the circuit. In recognition of this discovery, as well as of the work next to be discussed, the unit of inductance is called the Henry.

### Foreshadows Electric Lighting

If, according to Faraday's discovery, the starting up of a primary current in the presence of a closed secondary circuit induces a temporary current in that circuit, and the cessation of the primary current induces another current in the opposite sense in the secondary circuit, it is to be expected that if the temporary secondary current, which rises to its height and subsides to nothing in a very short time, is made to act inductively on a third or tertiary circuit, a more complicated system of currents will be induced in it. Pursuing this expectation Henry in 1838 discovered a multitude of interesting and curious effects. He pushed his researches to currents of the fourth and fifth orders. The phenomena observed were very complicated, but Henry succeeded in unravelling them all, and in showing that they were the simple consequences of the original principles of induction. In the higher orders particularly, these currents partake of the nature of the alternating currents which are now maintained continuously by the dynamo machines in the electric lighting stations. By using a coil of many turns of wire in connection with one with a few turns, Henry showed that he could use an intensity current, or current of small quantity and high electromotive force, to induce in the neighboring circuit a quantity current, of great quantity and low electromotive force. This operation is precisely that carried out by the converter in our modern system of electric lighting. Conversely the quantity current could be made to induce an intensity current. Henry measured the total current in any one of these cases by the swing of an ordinary galvanometer but the intensity or electromotive force he could measure only by the shock which he perceived when the circuit was discharged through his body; and he speaks of currents ranging in intensity from one which could barely be perceived, when one of the terminals was placed on the tongue, to one which gave a shock that was felt in the breast when the terminals were grasped by the hands.

### Leyden Jar Discharges Oscillatory

In the same year (1838) Henry investigated the effect of discharging a Leyden jar through a circuit and using this circuit to influence a neighboring one inductively. This experiment was at first tried to test

the question of similarity between what were then called ordinary electricity and galvanic electricity. He found that an induced current could be obtained in this way, and that as in the former case these currents would induce others of higher order. As a test for the occurrence of a current in the circuit he used a sewing needle placed in the axis of a little coil which formed part of the circuit. When the current passed the needle was magnetized. Certain irregularities were soon noticed in the state of magnetization shown by the needle. With all the arrangements the same the needle was found with its polarity sometimes in one sense, sometimes in the reverse sense. The same uncertainty in the sense of the polarity was shown when the coil in which the needle was placed formed a part of the circuit into which the Leyden jar was discharged. Reflecting upon this striking circumstance Henry perceived that it could be explained if it be admitted that the discharge of the Leyden jar is not a rush of electricity in one direction only, but a succession of rushes, alternately in opposite directions and of diminishing intensity. In fact he showed that the ordinary discharge of the Leyden jar is oscillatory and not in one direction. These oscillatory discharges set up electromagnetic waves which travel through space with the velocity of light. Henry arranged in his house a glass cylinder carrying on the inside and outside of two parallel spiral strips of tin foil. One of these strips was joined by one end to the lightning rod, by the other to the earth. The other strip was joined in circuit with a coil of wire in which a needle was placed. With this arrangement he magnetized needles with the currents set up by lightning flashes which were so far away that the thunder was scarcely audible.

### Wireless Telegraphy

Henry's interest was excited by the distance through which the inductive action could be exerted. By using a copper ribbon wound in a ring as the primary circuit, with an ordinary battery he obtained perceptible shocks in a helix containing a mile of copper wire set up 7 feet away from the primary. The action passed through "a number of people". Using Leyden jars to throw sparks on a circuit he magnetized needles in a parallel circuit 30 feet below it in a cellar, with two floors and ceilings each 14 inches thick between. With a single spark thrown on a wire stretched in front of Nassau Hall between two buildings, presumably the present University offices and Henry's laboratory, he magnetized needles in a parallel circuit 225 feet distant back of Nassau Hall, between two buildings, presumably East and West College. He was particularly struck with the fact that the action was not prevented by the interposition of the building. The mode of recognizing the presence of current in the receiving wire was not adapted for signaling and particularly not for the transmission of messages, but the arrangement demonstrated the possibility of the transmission of the electric waves over considerable distances and was in fact in the sending end, and to some extent in the receiving end, an effective system of wireless telegraphy.

With this research Henry's activity as an investigator in electricity and magnetism closed. He left Princeton in 1842 to devote himself as Secretary of the Smithsonian Institution to the development of that noble foundation for the increase and diffusion of knowledge and as he said of himself, "Exchanged permanent fame for transient reputation."

### Seats For Triangle Show

Men who have applied for seats for the New York performance on Saturday can get their tickets at the Triangle office between 4 and 5 to-day and to-morrow. All tickets not called for by 5 o'clock, Friday, will be left at the Astor box office where they may be had.

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Send for booklet, "Christmas Sugges-  
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NOW OPEN  
Everything from a sandwich to a  
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Leave Princeton—\*6.00, 6.45, 7.30,  
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4.15, 4.45, 5.15, 5.45, 6.15, 6.45, 7.15,  
7.45, 8.15, 8.45, 9.15, 9.45, 10.15, 10.45,  
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and a Happy New Year  
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A Merry Christmas  
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A Happy New Year  
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The Tailor That Leads Them All  
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### T. FISKE 1914 RESIGNS AS MUSICAL CLUB'S MANAGER

(Continued From First Page)  
ative Committee and will be the  
method employed this year in elect-  
ing the Assistant Manager. There  
will be a meeting of the Musical  
Clubs one week after the opening of  
College in January, for the purpose  
of nominating competitors.

### WEEKLY BULLETIN

Thursday, December 18

7.10 p.m.—Weekly meeting of Phil-  
adelphian Society. Rev. Robert S.  
Smith, of First Congregational  
Church, Poughkeepsie, N. Y.

8 p.m.—Hockey with St. Paul's  
School, Concord. St. Nicholas Rink,  
New York City.

8.15 p.m.—Faculty Performance of  
Triangle Club in Casino.

Friday, December 19

8 p.m.—Swimming with City Col-  
lege of New York, New York City.

4.30 p.m.—Mathematical Club Lec-  
ture by Mr. Galajikian in Room 27A  
School of Science.

Saturday, December 20

1.30 p.m.—Christmas vacation be-  
gins.

Triangle performance at Astor Ho-  
tel, New York. Matinee and evening.

Basketball: Princeton vs. City Col-  
lege of New York, New York.

Monday, December 22

Triangle performance at Belasco  
Theatre, Washington. Matinee.

Tuesday, December 23

Triangle performance at Bellevue-  
Stratford Hotel, Philadelphia. Mat-

### FACULTY PERFORMANCE OF TRIANGLE SHOW TO-NIGHT

(Continued From First Page)  
F. Scheerer 1917. Cornets—R. Ho-  
gan 1914 and J. W. Richardson 1915.  
Trombone—C. Keple 1915. Horns—  
H. H. Gile 1915, W. White 1916, N.  
M. Chester 1917. Flutes—L. M. Sel-  
lers 1916, B. M. Grant 1916. Violas—  
J. M. Speers 1916, W. B. Newburg  
1916. Cellos—P. C. Speers 1914, S.  
L. Hypes 1916. Bass Viol—R. N.  
Schullinger 1917. Traps—J. K. Hon-  
igman 1914.

Supper to Students in Princeton  
at Prospect On Christmas Night

It will give President and Mrs. Hib-  
ben great pleasure to have the stu-  
dents, both undergraduates and grad-  
uates, who remain in Princeton dur-  
ing the holidays take supper with  
them, Christmas night, December 25,  
at 7 o'clock.

In order that a personal invitation  
may be sent to each one of those who  
expect to be in Princeton at that time  
they are urgently asked to leave their  
names at the President's office in  
Nassau Hall as soon as possible.

inee and evening.

Wednesday, December 25

Triangle performance at Newark.  
Evening.

Thursday, December 26

Triangle performance at Nixon The-  
atre, Pittsburgh. Matinee.

Friday, December 27

Triangle performance at Orchestra  
Hall, Chicago. Matinee.

### BULLETIN ELM

THE NASSAU INN RESTAU-  
RANT NOW OPEN FOR NIGHT  
SERVICE until 12.00 o'clock. Oys-  
ters, Steaks, Chops, Rarebits, Lob-  
sters, Scallops and all fish in season.

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E. W. EMERY CO.—Mr. Harry J.  
Whitekamp will be at Kopp's, 60 Nas-  
sau St., on Wednesday, Jan. 7 with  
a full line of Fall and Winter sam-  
ples; also sample garments.

LITTLE & GOLZE, Tailors to the  
Majority of the Better Dressed Col-  
lege men, extend to all their patrons  
their very best wishes for a Merry  
Christmas and a Happy New Year.

D. H. KRESGE, The Tailor That  
Leads Them All" wishes all the boys  
of Princeton a "Merry Christmas and  
a Happy New Year", and thanks his  
many patrons for so liberally placing  
their orders with him during the past  
season.

LOST OR MISPLACED—In some  
room, a Brooks Bros. dark gray strip-  
ed suit. Finder please notify PRINCE-  
TONIAN.

LOST—Cap and Gown pin, initials  
I. E. Finder return to this office.

"HIGH JINKS" AT THE LYRIC  
THEATRE—Mr. Arthur Hammer-  
stein announces that his musical  
farce comedy, "High Jinks", inaugu-  
rated its New York engagement at  
the Lyric Theatre on Wednesday  
evening of this week.

The book and the lyrics of "High  
Jinks" are by Leo Dietrichstein and  
Otto Hauerbach. The music is by  
Rudolf Friml, who was first intro-  
duced to the American public a year  
ago by Mr. Hammerstein through the  
production of "The Firefly", in which  
Emma Trentini starred with such  
success in New York and in which  
she is now appearing on tour. It may  
also be pointed out that Mr. Hauer-  
bach was the author of the book of  
"The Firefly", and that this is there-  
fore the second piece he and Mr.  
Friml have created together.

"High Jinks" is in three acts and  
the action all takes place in Paris dur-  
ing a Carnival. Dr. Thorne, an Amer-  
ican nerve specialist living in the  
French capital, has a friend by the  
name of Dick Wayne, an explorer,  
and Wayne has discovered a drug in  
the form of a perfume called "High  
Jinks". The effect of this perfume is  
to make the timid brave, the pessi-  
mist an optimist, the serious man  
jovial and the prudish person a dare-  
devil. The complications of the  
piece are brought about by the man-

### "The Home of College Men"



ner in which Dr. Thorne experiments  
with the curious drug, and the result  
is a laughable, clean, wholesome com-  
edy. Much of the plot is told in  
songs with music that is tuneful and  
always appropriate. The cast of  
"High Jinks" includes Elizabeth Mur-  
ray and Tom Lewis as the featured  
players. Among the other artists  
with important roles are Ignacis Mar-  
tinette, Miss Elaine Hammerstein,  
the daughter of Arthur Hammer-  
stein, who makes her professional de-  
but in this production; Robert Pitkin,  
Burrell Barbaretto, Snitz Edwards,  
Blanche Field, Ada Meade, Mana  
Zucca, Emilie Lea, Augustus Schultz  
and Elsie Gergley.

"THE THINGS THAT COUNT",  
produced last week with the utmost  
success at Maxine Elliott's Theatre,  
New York, will remove next Monday  
evening to William A. Brady's Play-  
house for the rest of the current sea-  
son. This change is effected for the  
reason that Mr. Brady does not con-  
trol the entire time at Miss Elliott's  
theatre, while at his own amusement  
temple he is able to set aside a pe-  
riod commensurate with the demands  
of the public for the new play.

All the incidents of "The Things  
That Count" take place between the  
forenoon and night of Christmas  
Eve, and most of them are directly  
within the cheery spirit of that indi-  
vidual space of time. One of these  
in particular, representing a Christ-  
mas Eve party in an East Side tenement,  
is conspicuously diverting. In  
this tenement there are families of  
American, German, Irish and Italian  
origin, and their young offspring are  
constantly at war, sometimes draw-  
ing their parents into the conflict.  
The various groups are present at  
the party, guests of the little Ameri-  
can girl and her youthful mother,  
who are living in the tenement in  
reduced circumstances. The audience  
is in a perpetual road of laughter.

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Big English Racing Melodrama  
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We earnestly request you to try and judge for yourself our PERA CERTI-  
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