

## Yearling Trackmen Capture New Hampshire Meet 86-40, Placing Men In Every Event

### TAKE ALL PLACES FOR FOUR EVENTS, COMPETITION EASY

Mann and Hall Tie in Comedy  
Mile—Schwarz, Winerman  
Are High Beaver Men

SPROUL, N. H., HIGHEST

With ten firsts out of the possible fourteen, the frosh cinder squad ran away from the New Hampshire freshmen by a score of 86 to 40. Ten firsts were made by the Beavers and the points were well distributed among the different events. In the half mile, low hurdles, pole vault and high jump, the Institute team took all the places, against easy competition.

High hurdles were the first of the events to be decided, the results showing a win for Crosby by a clear ten yards. He was followed to the finish by Lockhart and two New Hampshire men. As soon as the hurdles were cleared off the track, the 100-yard dash was run off. Dick Bell was favored to win this, but was almost beaten by a New Hampshire man who appeared to be two or three inches behind him. The result was declared a tie.

Hall and Mann Take Mile  
Charlie Hall and Mann walked away from the other milers, beginning with the last of the first lap, and their lead continued all through the race, till at the finish they were fifteen yards ahead of the nearest man, one of the New Hampshire entries. As they did in the Andover meet, they slowed down to a trot on the stretch, and came in each one grasping the other's hand. Referees called this race a dead heat, also.

By this time, the finals of the shot had been completed and they showed Max Winerman to hold second place, and Tomlinson, third. In the 220-yard dash, Dick Bell came in a slow second. His foot, which has been bothering him this week, let him down before the finish, and the New Hampshire man was able to pass him at

### Golf Team Wins From Wesleyan and Ties With Bowdoin

Four of Six Bowdoin Matches  
Take Extra Holes To  
Decide Winner

Technology's golf team engaged in two meets last week, tying Bowdoin College at Bear Hill Country Club in Stoneham, Mass., last Thursday, and defeating Wesleyan, 4-2, at Cromwell C. C. in Middletown, Conn., last Friday. To night, they will meet the Boston College team on one of the Boston courses.

This gives the team a record of two victories, two ties, and one defeat in their five meets to date. Boston University was the first to be defeated by the M. I. T. team, and Worcester was tied two weeks ago. Last Monday, Brown won over the team by a 5-1 score.

Very Close Meet with Bowdoin  
In the Bowdoin meet, the matches were extremely close throughout, four of the six taking extra holes to decide the winner. Yates defeated the number one man on Bowdoin at the nineteenth hole, but Churchill was unable to take his match though he pushed his man to the twenty-third hole, before they could declare the victor. Fearnside won his match on the nineteenth green, and the team of Yates and Churchill in the foursomes won also on the first extra hole.

At Middletown, the team won their

### ELEVEN INITIATED INTO WALKER CLUB

Eleven Juniors were initiated into Walker Club last Thursday evening at a banquet held in the Commons Room of the Rogers building. They were elected to the society on April 16.

John Lawrence, Otway W. Rash, Addison S. Ellis, Henry E. Worcester, Jr., Byron E. James, Robert D. Butler, Donald B. Gilman, Richard R. Hall, William H. Barker, John T. Keltman and Zebulon T. White are the new members of the Walker Club.

## HEAVY FROSH WIN OVER BROWNE AND NICHOLS ON BASIN

150-lb. Yearling Crew Swamps  
At Finish of Hard Race  
Over Henley

'33 TAKES RICHARDS CUP

Technology's first heavy yearling crew rowed down the Browne and Nichols Varsity eight and the Beaver first 50's in a triangular race over the Charles river Henley course Saturday afternoon.

After encountering considerable difficulty in lining the boats up with their rudders pointing into a stiff down-river breeze, Referee Paul Bauer sent them off to a good start at 2:20 P. M., only 20 minutes behind schedule.

Browne and Nichols Take Lead  
Browne and Nichols, the middle-lane, took the lead at the start and held it with a half-length margin for the first quarter-mile with the heavy frosh second in the Cambridge side and the frosh 50's about a quarter-length behind them on the very much rougher Boston lane.

At the half-mile mark the heavies began to pull up and soon swept under Harvard Bridge a length ahead of the prep school boat from up the river. Matters were somewhat different for the frosh 50's who were confronted with a rough and choppy course in the outside lane and lacked the much needed protection of wash boards which were so effectively keeping the water out of the outer shells.

Frosh 150's Ship Water  
Despite the fact that their boat was carrying nearly six inches of water, these lightweight oarsmen began to pick up the beat at Harvard Bridge and in a short time had their prow even with that of Browne and Nichols. They held this position for about three lengths when a series of white capped waves leaped up over bow and riggers pouring literally buckets of water into the already overlaid boat.

With the shell riding low the men

### Catholic Club Will Hold Spring Formal

Dance To Be Given in Walker  
Memorial Main Hall  
Friday Night

Plans for the twenty-fourth annual Spring formal dance of the Technology Catholic Clubs, which will be held next Friday evening in the Main Hall of Walker Memorial, are practically completed. This year the dance has been opened to the entire Institute and all students are invited.

The hall will be decorated on the same plan as the Junior Prom. Art Marshall and his band of ten pieces will furnish the music for the occasion. Inasmuch as this dance is the last one of the school year a large attendance is expected. Tickets may be obtained from any of the club officers or at the door at \$2.50 per couple.

At a smoker held last Wednesday evening in Walker Memorial the results of the club elections, as announced in THE TECH Friday, were given out. During the business portion of the meeting, the new revised constitution of the club was read, passed, and accepted. The new officers, who have already been installed, will serve during the coming school year.

### New T. C. A. Blotter To Be Printed Upside Down

In response to complaints that the T. C. A. blotter wears out on the bottom while the rest of the edges remain in good condition, one side of next year's ink absorber will be printed upside down. In this way the bottom of one side will be at the top when the blotter is turned over.

To date, twelve of the twenty-two firms which advertised in this year's blotter, have renewed the space for the next one. More are expected to come back in the next few weeks. The form of the blotter will be the same as it has been for the past few years.

## Institute Varsity Track Team Loses Hard Meet With Maine University at Orono Saturday

### Radio Society To Visit Round Hill Saturday, May 16

Offer Airplane Ride As Extra  
Attraction—Everyone  
Is Invited

Round Hill, Colonel Edward H. R. Green's far-flung estate at South Dartmouth, site of the Communications Experimental Station of the Department of Electrical Engineering, is the goal of an excursion to be conducted next Saturday by the M. I. T. Radio Society.

All students, members of the Faculty, and others may make the trip. Ladies are also invited. The round-trip fare for the 75-mile bus ride has been set at \$2.25. An additional attraction is being offered this year in the form of a 15-minute airplane ride from the Round Hill Airport, and the price of this will be an extra two dollars. A cabin monoplane and an experienced Army pilot have been retained for the purpose.

Test Trans-Atlantic Plane  
The beautiful Green estate is located on the coast about ten miles south of New Bedford. In addition to the radio and meteorological research laboratories maintained there by the Institute, the estate boasts a completely equipped airport and a dirigible dock for housing small blimps.

A Bellanca monoplane belonging to Russell Boardman, wealthy sportsman, is being trimmed and tested

### BEAVER CLUB HOLDS ANNUAL INITIATIONS

Eight members of the Sophomore class were initiated into the Beaver Club at a banquet held at the American House on Friday evening. About thirty old Beavers were present to conduct the simple ceremony of inducting new members into the organization.

The following men were initiated: Leland S. Person, Robert G. Holt, Fred H. Garber, Loren H. Nauss, Jr., Paul E. Davis, Herbert P. Beers, Robert M. Kimball and John D. Rumsey.

### GRONDAL BREAKS INSTITUTE MARK IN PUTTING SHOT

Coon and Jewett Are High—  
Coon Wins Two Events,  
Jewett One

GILMAN RUNS FINE RACE

At Orono, Maine, the Varsity Track Team was beaten by the University of Maine by the score of 82-53. Twenty-six of the regular men made the trip, and there were entries in every one of the fifteen events. Don Gilman ran a wonderful race in the two-mile, his final time being 9 minutes, 51 seconds.

Captain Bror Grondal won the shot-put and in doing so set a new Institute record of 44 feet, 1 inch, bettering the record he held of 43 feet, 11 1/8 inches that was made at the Harvard Stadium a week ago. Previous to this, he held the record also, the one he set during the winter. Unfortunately, he is a Senior, and his excellent work will of necessity, come to an end this season.

Coon High Scorer  
Ev Coon was the high scorer of the team with two firsts. One of these he made in the high jump clearing 5 feet, 10 3/4 inches to take it, and the other was in the 120-yard high hurdles, which he ran in the excellent time of 16 1/5 seconds. His work in these events has been improving all season long but he has not had such a good day as this before this season.

Jewett turned in an excellent afternoon's activities, in winning the quarter and getting second in the 220. He has not shown as much form in the 220 as he did Saturday, in a long time, and the second was a real achievement. The quarter was a difficult race all the way around, because of the circular track. The men had to rely upon their starts to give them positions, and in this respect, Jewett was way ahead of the rest. The time for the race, 50 3/5 seconds, was nothing short of remarkable, as the shape of the track adds two or three

## Names of Four Famous Geologists are Among Those on Institute Buildings

Agricola, Harvey, Lyell, and  
Hutton Among Names of  
Noted Scientists

Names, mere names used as a decorative border on the buildings of the world's greatest engineering school! Must such be the fate of scientists who were great in their time, but not so great that their names are, in our crowded present, associated with their donations to the world's knowledge? Glance over those many inscriptions, a collection of the greatest names known to science. How many of them mean more than mere letters carved in stone?

Let us take a few which have a somewhat familiar sound in our ears and discover what we can about them. For instance, the career of Agricola might prove interesting. We find that he was a Saxon born at the close of the Fifteenth Century. After a well-rounded education acquired at Leipzig and in Italy, he practiced for some time in Bohemia as a physician.

Studies Geology  
In 1531 he was appointed professor of Chemistry in the mining district of Saxony, thus enabling him to gratify a natural inclination toward the study of geology and mineralogy. The results of many years of investigation are found in his great work, "De Re Metallica," describing minutely the various methods of mining, of raising and dressing ore, and of smelting.

Interesting to the students of art as well as to the engineer are the number of curious woodcuts which this old volume contains. The work has been several times reprinted, a German translation appearing in 1806.

Among other of George Agricola's works are "De Ortu et Causis, Subterranean Eorum," and "De Natura Fossilium."

Raises Standing of Mineralogy  
Through the medium of these and other volumes, he succeeded in raising mineralogy to the dignity of a science. To such a degree was his development of that science that no substantial advance was made upon his results until the middle of the 18th Century.

And now comes a slightly more familiar name—William Harvey. To those acquainted with the history of medicine Harvey is known as the discoverer of the circulation of the blood. After receiving his B.A. degree at Cambridge he commenced the study of medicine at Padua under Fabricius and Casserius.

Shortly after his return to England, Harvey was admitted to the Royal College of Medicine. In the year of Shakespeare's death he began a series of lectures which first brought forward his views upon the movements of the blood in the human body. As time passed his theory, which had been as hotly opposed as it had been defended, became generally accepted, and Harvey was known and honored throughout Europe, his work being actively patronized by Charles I.

After another trip to the Continent to accompany James Stuart, Duke of Lennox, the great physician had assembled an immense natural history collection, and more important, a large number of observations on generation. The latter, quite a treasure, were published in 1651 as "Exercitationes de Generatione."

Though such works of his were

## Special Electrical Issue of T. E. N. Celebrates Anniversary of Faraday

Professor Thompson Discusses  
Uses of Electricity  
In Chemistry

One hundred years ago, Michael Faraday discovered the phenomenon of induction. It is therefore fitting that now, at the time of his centennial, the final issue of The Tech Engineering News should devote itself to some of the phases of electricity as applied to modern life. For the admirable execution of its purpose, both as regards the broad scope of its subject matter and the excellence of its arrangement the retiring staff of the T. E. N. is to be heartily congratulated.

Faraday's work is being reviewed and evaluated at the present time, and it is therefore not unnatural that M. deK. Thompson, Professor of Electrochemistry at the Institute, should bring up Faraday's law of electrolysis in his discussion of the "Application of Electricity to Chemistry." "While Faraday's contribution to electrochemistry was not a necessary forerunner of the applications of electricity to chemistry," writes Professor Thompson, "nevertheless, it is of the greatest importance as a guide in most of these applications, and it is therefore appropriate to consider him an important contributor to these developments."

Electrochemical Processes Listed  
"The practical applications of the interaction of electricity and chemistry include electroplating and electroforming, the extracting and refining of metals in aqueous solutions and in fused salts, the production of chemicals in aqueous solution by electrolysis, and in electric furnaces both by

Study of Faraday  
Dr. Swann, director of the Bartol Research Foundation of the Franklin Institute, who spoke at the Institute in connection with the Faraday celebration, has contributed a searching study of Faraday, the scientist, the man, and the thinker, which is a valuable piece of analysis. Faraday had an intuitive mind and an uncanny power of hitting upon the essential

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MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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In charge of this issue: Deborah V. Rubenstein '34  
Robert J. Dunlavey, Jr. '32

AN EQUAL CHANCE

WHETHER we like it or not, two weeks from Thursday begins the final examination period. Our finer sensibilities would have us give this matter no further thought, but our more practical selves begin that long period of worrying and fretting which always precedes these semi-annual reviews.

It is not proposed to deliver here the time-worn lecture which in several paragraphs urges "stick-to-it-to-the-end." We all recognize that to display our greater talents on paper it is necessary to go into the examination room confident and level headed. We all admit that the two weeks before these examinations should be utilized in careful and conscientious review. Whether or not we take advantage of this opportunity is up to us. It is our own roads we are paving.

The Institute has always been rather peculiar in its attitude toward examinations. Classes are scheduled up to the day before the examination period, allowing no time to pause and consider previous to venturing into the realm of back-breaking stools and rough-hewn drawing benches. Review in any course seldom means any more than two hours of brief outline. What, then, is left to the student in need of a better review than tutoring at three dollars per hour? Final examination for some is a costly procedure.

The question depends wholly upon our own decision. The final examinations are, in most cases, determining of the final grade, a system current in most American colleges and universities. At the present date we must cope with the situation. However, the Faculty might well consider a more studied plan of examination, one which is fairer to the major portion of the student body—the men who justly deserve a more thorough review. As against the common concept of our instructors, the average student finds it extremely difficult to carry through the course every point that must be understood to pass a final examination. He needs review, and he should have a period at his disposal which should be devoted only to review.

A more balanced system seems in order whether it be accomplished by moving the examination period up a week to allow for review, or by recognizing when examinations are drawn up that the student attended classes the day before. Since the Institute authorities have taken to publishing the list of better students, we should certainly be allowed to make our grades with little or no handicap.

RESEARCH, WHAT AM I OFFERED?

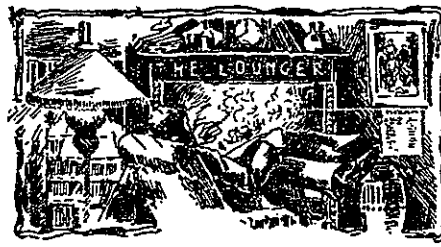
SCIENTIFIC research in the last half century has probably contributed more toward the advancement and fruition of human existence than any other activity that can be grouped under one heading. Edison, Ford, Pasteur, and Babson have all pointed out the great necessity of research to the advancement of their respective fields of endeavor. Research is not limited in any way to science or its dependent industries for it is applicable to history, painting and music with equal value.

Present-day research and its relationship to the creative industries serves as a relative accelerator, that is, the greater the effort expended in research, the greater will be the acceleration gained by the industry. It is clear, then, why such great expenditures have been advanced or promised with the viewpoint toward carrying on research along some particular branch.

With this in mind, the question immediately presents itself, what is the proper place for research? Its value is without question. Its propriety is not so established as a part of the educational system. Educational institutions everywhere have been fortunate, or unfortunate, enough to receive donations in major figures for the establishment of new buildings, new laboratories, and new men for the carrying on of this research. The industrial magnate's position is clear-cut. The educator's is not so clear-cut. The time is probably not so greatly removed when every one of the present-day centers of education will have to decide if it is to be a research laboratory for the obtaining of facts or an academic school for the training of men. The success of the former means the development of a sound business. The success of the latter means the development of a sound ideal.

Money is magic. It can cast a spell where honeyed words draw blankness. Long-suffering educators can easily be blinded to any defects in the plan by immense sums donated which promise and fulfill many of their righteous ambitions for their institutions.

But where does the equally long-suffering student come in? If he is going to spend his time in training by looking up and ratifying facts for another man's business, is he going to be a true man of science, equipped for every contingency, that he has a right to expect will result from his investment of time and money?



Add to the list of the world's greatest misfortune, the sad plight of one chiseling engineer. The poor cuss had been all hopped up with Pop Lambirth's forging work which must be done to the "proverbial Technology hair." Thinking himself many thoughts, and admitting immediately his own lack of skill in the noble art of smithery, said engineer hied himself to the nearest blacksmith and for the sum of 15 iron men had a complete set of pieces made up. Ha Ha, he flunked the course . . . and he is out the fifteen berries.

The Lounger is griped and wants the world to know it. If the reader expects any entertainment in this column he can quit where he is. The Lounger is griped. No Filter paper, no Wellesley, no marriages, no boiler tests, no Hidy Tidy's, no cows or cars on roofs, no Carnival, no interest in elections, in short no life above the neck. Rah for Technology! Which reminds the Lounger, who never hears a Tech song. At a THE TECH ceremonial banquet a little while ago, only a few Juniors who were present knew the Stein Song—a dumb gang of frosh and sophs. And the Lounger bets half his readers do not know to which Stein Song he refers. Why not put some Tech songs in Walker so we can hear them instead of a five year old musical comedy melody.

The Lounger hopes some of the alumni will stroll into the Main Hall of Walker, see the stately pillars, the gently drooping colors, the dignified symbolism of the murals and then imagine the scene as the students find it every day filled with ugly dining tables, smelling of stale cooking, and resounding with the clash and clatter of dishes. What the Institute needs is an adequate social center where some sort of a stamp may be developed in the men's characters. The Corporation seems to forget that it is not the equipment, the paint, the pictures, the buildings that have made Technology world famous. It is Tech men. The Lounger goes on record that the present crop is steaming around going no place, much like mice trying to fill seven league boots.

The Lounger remembers when Field Day was a fight not a picnic, when autos and cows were found perched on dorm roofs, when street cars hid behind telegraph poles when the word went abroad that the engineers were out. But now! Listen to the tale of woe. No Filter paper (hooray for purity), no Carnival (hooray for peace), no whoopee boiler test (hooray for prohibition), no more tainted Voo Doo's (hooray for virtue), no more frosh hops (hooray for early to bed boys), no more Hidy Tidy's (hooray for anaemia), no more Wellesley (hooray for monasticism), no more T. C. A. marriages (hooray for celibacy), but plenty of baby blue and pink woolly jackets and yellow pants (hooray for Harvard). In short "We are not happy; Tech is not Hell."

By the way the Lounger has it on good authority that the doors and windows in the new dorms are staggered to prevent a repetition of an occurrence of a few years ago when the dorm inmates got a telephone pole and shoved it in one side of the building and left it sticking out the other. No danger of their doing that now . . . and not because the openings are staggered either says the Lounger.

THE OPEN FORUM

To the Editor of THE TECH:  
Phosporus, in its official role as purveyor of the Institute humor, has been pretty rank of late. But when he steps outside his role to defend and criticize, he achieves the crowning insipidity. And in certain aspects, he is closely followed by the editorial staff of THE TECH.

In a recent editorial appearing in THE TECH, Voo Doo was hauled over the coals in the most approved Censor-Casey-of-Boston style. Phosporus, it seems, had been "skirting dangerously close to the line." His humor, apparently, was of an ambiguous nature, full of double meanings.

Certainly, the humor of Voo Doo "skirts dangerously close to the line,"—and often beyond it. And why not?

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Tossing of Boxing Gloves Furnished Inspiration To Basketball Creator

Nine Men Used on Teams During Early Days of New Major Sport

Most of the games indulged in by college students have come down to them in a developed form of old pastimes; sports which have survived for centuries, and have been modified from time to time as the needs arose. Basketball is on record as the only accepted group game which has been originated for a specific purpose, and to fill a specific need.

Before the coming of the game, there was a definite lull in athletic activities between the fall season of football, and the advent of spring with its baseball. A certain Dr. Naismith, at Springfield College, realized this lack, but instead of merely accepting it, decided to remedy it.

**Inspiration from Boxing Gloves**  
Starting at the beginning, he picked apart the great attractions which the prevalent games seemed to hold for both player and spectator, and finding these, he decided that his new game should incorporate all of them and any others which he might come across as he progressed.

In spite of Dr. Naismith's desire to create a game on scientific principles, the actual inspiration seems to have come by accident, to judge by most reports. The stories say that the mere tossing of boxing gloves into a basket, one day in a gym, gave rise to the ideas which crystallized almost immediately into rules and methods of play.

Realizing that the basis on which to lay cut the plans for his ideal game was at hand, he persuaded several men to join in and try to toss an association football into a peach-basket fastened on the end of the gym. After a short time of this actual practice, the greatest defects appeared to him and he retired to add to his skeleton set of regulations.

**Nine on a Team**  
From this one gym, the sport, now in a more advanced form, spread around until it was a common thing, and in some places, even threatened to drive all other sorts of exercise on the gym floors. The number of players was not restricted at all, in the first few trials, but it soon became evident that there could not be more than nine or ten, so the outside limit was set at nine to a side. The dif-

ference in size of the floors led to the provision stating that on areas of less than 1800 square feet only five men were to be permitted, less than 3600 square feet, seven men, and over that, nine men.

As soon as games began, and traveling from one court to another was necessitated, it was decided that to eliminate the disruption of teams which followed as a direct result of having suddenly to switch from a five man squad to a nine or a seven, the size of teams would, in the future, be definitely fixed at five men apiece.

**Scramble for Ball**  
This part of the history, that is, what took place 1892 and 1894, did not show any change in the ball used, from the original soccer ball. However, at the end of this time, the size now in use was adopted, and found satisfactory. Another odd feature of the game at that time, was the method of putting the ball into play. Instead of jumping centers, as is now the rule, the two teams were lined up at opposite ends of the gym, the ball was tossed into the middle of the court, and the teams were allowed to scramble for it.

This convention led to so much body contact and roughness that it was abolished in favor of the present mode. It was seen from the very first that on a hardwood floor there could be no such thing as tackling or blocking, and since these features would make the game resemble football too much, they were banned.

A method of carrying the ball had to be found, it was decided, in order to prevent the constant passing otherwise necessary, so the idea of dribbling was inaugurated. From these steps, innumerable rules resulted, to limit the activity of the men with the ball.

**Forfeit Points for Fouls**  
By 1895, the game was in essentially the same form that it now has, and the most radical changes have been those which affect the playing but little. One of the big changes was that made in the penalty for fouling. Originally, a team forfeited one goal to its opponent if its members fouled three times, unless the other team fouled before three had been totaled. The present practice of allowing free shots replaced the old method, and was found so successful in preventing the things which the penalty was supposed to stop, that it has remained.

Although basketball has one of the shortest histories in the annals of sports, its career contains a remarkable number of high spots, and it is unquestionably the most popular winter group sport today. Its development is remarkable in that such a perfectly constructed game should result from such a short period of trials.

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Varsity Trackmen Defeated by Maine

Grondal Breaks Shotput Mark Again As Team Loses Hard Meet

(Continued from Page One) fifth on every lap. With Grondal in the field events were Robertson, the Institute record holder in the javelin, and Moody, a hammer thrower, who was recruited from the ranks of the middle distance men earlier in the year. Both Robertson and Moody won their events with remarkable throws and it can be seen from their consistent marks that they are not merely lucky but are the result of a lot of long, hard practice.

Gilman Takes Two-Mile Don Gilman was not favored to win the two-mile run against his two Maine opponents, as they have been winning this year with a regularity which has boded ill for all men they met. However, Gilman started out with the idea of beating them, and after fighting out every yard of the race, he did it.

In the pole vault, Ben Hazeltine, ex-captain of the hockey team, and Greene took second and third, respectively. Hazeltine has been jumping around twelve feet all season, but Greene's coming through with a score in such stiff competition was a feat which cost him every effort that he was able to make. Coach Hedlund was pleased to have the man show up so well in a difficult meet.

Bill Hall, the dash man, ran against an ace, in White of Maine. White is a consistent winner in the 100-yard dash, and is ably backed up by his teammate, Means; the two of them beat Hall by very small margins, giving Hall the third place.

Besides Jewett in the quarter was Dworzecki, of the Engineer squad. He fought the entire race against Wendall of Maine, Jewett being well ahead of them. Wendall was finally able to pull away from Dworzecki for the few feet necessary, and was given second, Dworzecki being relegated to third.

McKay Second in Half McKay, running in his usual fine style in the 880-yard race, was beaten by a crack man from Maine, who passed him in a strong sprint, to win. Third place in this race went to a Maine man also. Kearns, the Institute entry in the mile, repeated the performance of McKay, when he was beaten by one of the Pine Tree boys in a fast race. The time of the winner was a little better than those general in the interclass meets, which often give the average ability of the Engineer cinder squad.

Jack Lynch found more than usual competition in the low hurdles, in the persons of Lufkin and McKinery of Maine. The race was nevertheless a hot one, and the finish was closely grouped, giving Lynch third. Ross, the second entry in the high hurdles, took the third place as the Maine entry that Coon beat, was just a little faster than he.

Soisalo Third in Broad Jump Soisalo, the Beaver man in the broad jump, was off his usual form, as he allowed two men to beat him; the best jump being just over twenty-one feet, four inches.

The summary is as follows: 100-yard dash—Won by White (M); second, Means (M); third, Hall (MIT). Time—10 1-5 sec. 220-yard dash—Won by White (M); second, Jewett (MIT); third, Means (M). Time—22 3-5 sec. 440-yard dash—Won by Jewett (MIT); second, Wendall (M); third, Dworzecki (MIT). Time—50 3-5 sec. 880-yard dash—Won by Mank (M); second, McKay (MIT); third, Shaw (M). Time 1 min. 59 2-5 sec. 1-mile run—Won by Booth (M); second, Kearns (MIT); third, Porcival (M). Time—4 min. 30 1-5 sec. Two-mile run—Won by Gilman (MIT); second, Gunning (M); third, Brooks (M). Time—9 min. 51 sec. 220-yard low hurdles—Won by Lufkin (M); second, McKinery (M); third, Lynch (MIT). Time—26 1-5 sec. 120-yard high hurdles—Won by Coon (MIT); second, Stiles (M); third, Ross (MIT). Time 16 2-5 sec. Shotput—Won by Grondal (MIT); second, Webber (M); third, Alley (M). Distance—44 ft. 1 in. Javelin—Won by Robertson (MIT); second, Jensen (M); third, Cleaves (M). Distance—185 ft. 6 in. Discus—Won by Webber (M); second, Alley (M); third, Curtis (M). Distance—124 ft. 1/2 in. High jump—Won by Coon (MIT); second, the between Branch (M) and Chase (M). Height—5 ft. 10 1/2 in. Broad jump—Won by Chase (M); second, Curtis (M); third Soisalo (MIT). Distance—21 ft. 4 1/4 in. Pole vault—Won by Webb (M); second, Hazeltine (MIT); third, Greene (MIT). Height—12 ft. 3/4 in. Hammer—Won by Moody (MIT); second, Gonsolos (M); third, Emerson (M). Distance—130 ft. 10 1/2 in.

The American group in the University of Amsterdam is the envy of the whole school. It seems that the Yankee delegation is the only one on campus which enjoys the privilege of drinking and chatting after curfew at 1 a. m.

Recent reports seem to indicate that the dean at Franklin and Marshall college is a right good old soul. So good in fact that right after Easter holidays he sent letters to a number of students inviting them to attend chapel.

Sports Results for Week of May 4

MONDAY, MAY 4—Golf: Brown 5, M. I. T. 1. WEDNESDAY, MAY 6—Freshman Lacrosse: M. I. T. 9, Tufts 1. THURSDAY, MAY 7—Crew: M. I. T. second freshman 1st, Union Boat Club 2nd. Golf: M. I. T. 3, Bowdoin 3. FRIDAY, MAY 8—Golf: M. I. T. 4, Wesleyan 2. SATURDAY, MAY 9—Crew: Richards Cup Race; Sophomores 1st, Freshmen 2nd, Juniors 3rd. Heavy 1st freshman 1st, Browne and Nichols 2nd, 150-lb. freshman 3rd. Varsity Tennis: Columbia 9, M. I. T. 0. Freshman Tennis: Harvard 9, M. I. T. 0. Varsity Track: Maine 82, M. I. T. 53. Freshman Track: M.I.T. 86, New Hampshire 40.

Sports Events for Week of May 11

MONDAY, MAY 11—Golf: Boston College at Boston. WEDNESDAY, MAY 13—Freshman Tennis: Brown at Providence. Varsity Lacrosse: Tufts at Medford. Golf: Holy Cross at Worcester. SATURDAY, MAY 16—Freshman Lacrosse: Andover at M. I. T. Freshman Tennis: St. Paul's School at Concord. Golf: Amherst at Boston (Unicorn C. C.). Varsity Track: New Hampshire at Durham. Crew: Varsity and 150-lb. Varsity, Columbia at New York. 150-lb. freshman, Harvard on Charles.

Freshmen Win From Wildcats In Track

Take New Hampshire Frosh By Score of 86 to 40 On Tech Field

(Continued from Page One) about the 175-yard mark.

Sweep Low Hurdles Hill, Lockhart, and Hopkins took the low hurdles, running a tight race among themselves for the places. After less than half of the race, it became apparent that Hill would win, and remarkable speed held right through to the tape.

Broad jumping attracted a great deal of attention from the spectators. Five men were jumping over twenty-one feet, and the outcome of the first place remained in doubt for a long time. Wrigley finally made one try which came within one-quarter inch of equalling the freshmen record that he holds, and won, with a jump of 21 feet and 9 3/4 inches. He was the only Technology man to place.

Smith Takes Half Easily J. G. Smith had an easy race in the half mile, running the entire race in the company of his own teammates, and finishing about twenty yards ahead of them. Rees Schwarz followed him in, and two other Beavers, Barrett and Emond challenged Schwarz a few yards before the finish, only to be shaken off again. As it was the fourth Institute runner led the first one from New Hampshire by ten yards.

Winerman, who had already won second in the shot, walked across the field and tossed the javelin further than anyone else to take first in that event. New Hampshire had a good man who gained a second for his team, and Lockhart took the third and added it to Technology's already imposing total of points.

Schwarz Wins Quarter Rees Schwarz took the quarter after fighting all the way around to keep ahead of Sousa, and the New Hampshire men pressed him for the first two hundred yards. He pulled ahead on the stretch to finish in the lead by a good number of yards. The quarter was by far one of the best of the afternoon's races from the point of view of the spectator as it was fast and all the men held together for the greater part of the distance.

High jumping was all the way of the Institute, the high men being Tomlinson, Walker and Crosby. Each of these men failed on tries and had seemed to have reached their limit, but when the absolute necessity came for better jumps they were ready with them, and won.

Richards Wins in Pole Vault Pole vaulting was not up to freshman standards, and with the exception of Frank Richards, no one made a good record. The New Hampshire men all pushed the bar off the standards in the lowest jumps, and it remained only for the Technology men to decide their places among themselves. Richards won, with Reamore second, and Tomlinson third.

Weights seemed to be the weak point of the team, Saturday afternoon. In the discuss throw Salo took first, with a heave of over one hundred feet. Two New Hampshire men won the two other places. Rimbach made some throws with the hammer that should have given him second place, but on each occasion, he fouled by losing his balance and leaving the ring. Pratt was just behind the New Hampshire entry who filled Rimbach's place, and scored third.

Summary of the meet: 100-yard dash—Tie for first between Sproul (NH) and Bell (T); third, Brown (NH). Time—10 3-5 sec. 220-yard dash—Won by Sproul (NH); second, Bell (T); third, Brown (NH). Time—22 4-5 sec. 120-yard high hurdles—Won by Crosby (T); second, Lockhart (T); third, Polard (NH). Time—17 3-5 sec. 440-yard run—Won by Schwarz (T);

TWO TENNIS SQUADS LOSE ON SATURDAY

Varsity Bows to Columbia 9-0 While Crimson Takes Freshmen 9-0

Both of the Technology tennis teams were whitewashed in their matches this week-end. The Varsity, on their New York trip, were the third victim of the Columbia Varsity this week. They were taken over by the tune of 9-0.

While the Tar Heels of North Carolina were bowling over the Harvard Varsity by wonderful cuts and smashes, Harvard freshmen avenged their school by mowing down the Technology frosh by another whitewash, 9-0.

Jones Defeats Dame Dave Jones, Columbia's ranking player, allowed Captain Frank Dame only one game out of the two-set battle, defeating Dame by 6-0, 6-1. Others of the Tech team were more fortunate in winning games, but none was successful in gathering a set, much less a match.

Doubles went in the same direction, Dame and Bill Jones being overcome by 6-3, 6-1 score. Other doubles matches were similar.

Freshman Also Beaten Badly Harvard took all of the wind out of the frosh in their meet, allowing them only a game here or there, but never letting a Technology man get any sort of a lead. Elder, number one M. I. T. player, gave his Crimson opponent the most trouble, but he was unable to pull through with a set.

Other Technology yearlings came through with no better luck, with the majority of the sets running 6-1 or 6-0 in favor of the Crimson. The only consolation was the pleasure of watching Bipsie Grant of North Carolina chop his way through Breese, the Crimson number one varsity man.

Summaries of both the meets follow:

Varsity Singles—D. Jones, Columbia, defeated Dame, 6-1, 6-0; Roe, Columbia, defeated R. Jones, 6-4, 6-1; Stone, Columbia, defeated Regan, 6-2, 6-2; Hartman, Columbia, defeated Studley, 7-5, 6-2; Moore, Columbia, defeated Ross, 6-3, 6-2; Wishik, Columbia, defeated Feustel, 6-4, 6-2. Doubles—D. Jones and Stone, Columbia, defeated Dame and R. Jones, 6-3, 6-1; Roe and Hartman, Columbia, defeated Regan and Ross, 6-1, 6-1; Moore and Courtney, Columbia, defeated Studley and Feustel, 6-3, 6-2. Freshmen Singles—Davenport defeated Elder, 6-1, 6-3; Hartford defeated Lammers, 6-1, 6-1; Porter defeated Gueck, 6-4, 6-1; Preburn defeated Seligman, 6-0, 6-1; Emmet defeated Feuchter, 6-0, 6-1; Grant defeated Wood, 6-2, 6-1. Doubles—Davenport and Porter defeated Elder and Wood, 6-2, 6-1; Metz and Preburn defeated Lammers and Seligman, 6-1, 6-1; Grant and Heeran defeated Gueck and Feuchter, 6-1, 6-3.

second, Miller (NH); third, Sousa (T). Time—52 4-5 sec. 880-yard run—Won by Smith (T); second, Schwarz (T); third, Barrett (T). Time—2 min. 5 1-5 sec. Mile run—Tie for first between Hall and Mann (T); third, Low (NH). Time—4 min. 47 3-5 sec. Javelin throw—Won by Winerman (T); second, Kurtin (NH); third, Lockhart (T). Distance—140 ft. 5 in. Running high jump—Tie for first between Tomlinson and Walker (T); third, Crosby (T). Height—5 ft. 8 in. Pole vault—Won by Richards (T); second, Reamore (T); third, Tomlinson (T). Height—9 ft. 6 in. Hammer throw—Won by Knox (NH); second, Baker (NH); third, Pratt (T). Distance—155 ft. Discus throw—Won by Salo (T); second, Hill (NH); third, Kochler (NH). Distance—102 ft. 6 in. Broad jump—Won by Wrigley (T); second, Sproul (NH); third, Miller (NH). Distance—21 ft. 9 3-4 in. Shotput—Won by Baker (NH); second, Winerman (T); third, Tomlinson (T). Distance—45 ft. 5 in.

Students at the University of Wisconsin are now required to carry identification cards around with them to show that they are privileged to attend classes. It was found that outsiders were attending classes and acquiring a free education.

Heavy Frosh Defeat Browne and Nichols

Sophomores Win Richards Cup In Saturday's Crew Race On Charles

(Continued from Page One) were unable to get their oars out of the water quickly at the end of each stroke and Browne and Nichols recovered their lead to cross the line a half-length ahead of the 50's and two lengths behind the victorious heavy frosh. The lightweight boat swamped a few moments after crossing the line and the oarsmen returned to the boat house in launches with their submerged shell in tow.

Sophs Win Richards Cup Victory in the Richards Cup races, rowed at 8 o'clock Saturday morning, went to the Sophomore boat stroked by Wallerstein. After a false start caused by one of the men jumping his slide, "Doc" Rowe sent the three lapstrokes off in good form for the annual event over the mile-long Basin course.

At the starting word the yearling boat, stroked by Frank, leaped out for a quarter-length lead. A stiff battle waged between them and the Sophomores with the latter slowly closing up the short yearling lead.

Win by Quarter-Length At Harvard Bridge the tide of battle had already changed and the Sophomores sped across the finish line a good quarter-length ahead of the frosh who were trailed by the Juniors at a full-length.

Richards Cup lineups: Sophomores Bow, Moslander; 2, Rhodes; 3, Newberg; 4, Henning; 5, Balboni; 6, Vanucci; 7, Person; stroke, Wallerstein; coxswain, Paulson. Freshmen Bow, McDonald; 2, Kelly; 3, Paulson; 4, Jester; 5, Oldham; 6, Becker; 7, Cahill; stroke, Frank; coxswain, Stamatiellos. Juniors Bow, Foster; 2, MacKusick; 3, Burrett; 4, Bannan; 5, Jenkins; 6, Martin; 7, Archambault; stroke, Fetters; coxswain, Cook.

Lineups at the Browne and Nichols race: Heavy frosh—Bow, Wing; 2, Roulston; 3, Nordos; 4, Lowenstein; 5, Murdoch; 6, Howatt; 7, Lucke; stroke, Westfall; cox, Humphreys. Time—7:14.

Browne and Nichols—Bow, G. Douse; 2, Kraness; 3, Driskol; 4, Wilder; 5, Johnson; 6, Lovett; 7, Tenney; stroke, H. Douse; cox, Pratt. Frosh 50s—Bow, Jordan; 2, Ledoff; 3, Friggen; 4, Joel; 5, Cantor; 6, Mupphy; 7, Reiss; stroke, Woodbury; cox, Woodhall.

GOLF TEAM DEFEATS WESLEYAN, 4 TO 2

(Continued from Page One) meet in the rain, taking two of the singles matches and both the four-somes the latter in extra holes. Churchill and Fearnside took their singles matches, and Yates and Churchill won their foursome, 1 up on the nineteenth and Fearnside and Metcher won 1 up on the twentieth.

Summaries of the meets: Bowdoin at Stoneham, Mass.: Singles—Yates (T) defeated Potter, 1 up (19 holes); Jones (B) defeated Churchill, 1 up (23 holes); Fearnside (T) defeated Smith, 1 up (19 holes); Brown (B) defeated Metcher, 4 and 3. Foursomes—Yates and Churchill (T) defeated Potter and Jones, 1 up (19 holes); Smith and Brown (B) defeated Fearnside and Metcher, 3 and 2. Wesleyan at Middletown, Conn.: Singles—Smith (W) defeated Yates, 2 and 1; Churchill (T) defeated Brown, 4 and 3; Fearnside (T) defeated Jones, 4 and 3; Samuels (W) defeated Metcher, 3 and 2. Foursomes—Yates and Churchill (T) defeated Smith and Brown, 1 up (19 holes); Fearnside and Metcher (T) defeated Jones and Samuels, 1 up (20 holes).

The latest questionnaire that has bobbed up appeared at Texas A. & M. and has some of the more unusual characteristics of the students when their "ideal" is concerned. Here are a few of the replies to the questionnaire:

When asked if their ideal girl must have one desire and that to be just a housewife, the answer was "Yes 57; No 382." Girl who smokes, "Yes 96; No, 1,019." Is a widow objectionable? "Yes 676; No 464." A divorcee? "Yes 806; No 384." Must she be a native of the U. S.? "Yes 593; No 525."

NOTICE THE TECH will pay 25 cents a copy for the first 5 copies of issues No. 53, Vol. 50, published Oct. 15, 1930, that are returned to the Business Office, room 302 Walker. These are needed for the bound volumes.

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AS WE SEE THE MOVIES

METROPOLITAN The Met offers a program of entertaining diversification this week, and one which should appeal to critics of varied appreciations. Clara Bow comes back again after a series of external misfortunes which threatened her career and presents a performance that in places distinguishes her as one of our more capable actresses. "Kick In" aims to show that the ex-convict must use his every nerve to "go straight," and that even though he manages to regain his status in this hard-boiled world, he is still under uncomfortable suspicion. The story is simple enough, and it makes its point. Regis Toomy is the convict, and he plays his part well. The other performances are convincing and well thought out. As a whole the picture is thought provoking, though nothing which will revolutionize the present prison system. On the stage, Helen Lewis and her Jazz Queens offer a series of excellent orchestral numbers, with specially dances and a short comedy sketch at varied intervals. Arthur Martel presents a most amusing organ recital, in fact, one of the best he has offered this year. We highly recommend the Met this week, and we would especially call attention to the stage program. A. S. E.

FINE ARTS A cross section of life in Old Russia, including many of the simple, but beautiful customs and traditions of the people, masterfully handled and built up on a stereotype plot, is the feature of the Fine Arts Theatre this week. The acting and photography are excellent and the picture shows the great amount of progress made by the Russians in moving pictures. It is the story of a peasant "troika" driver (a "troika" is a sled pulled by horses and used more or less as a cab in the winter) who suddenly becomes infatuated, on Christmas eve, with a society woman, leaving his lovely wife and young son, to celebrate the day alone. When he returns home he is sullen and dissatisfied and in a fit of anger leaves the house. The young wife collapses but the little boy runs out after his father, is lost in the snow drifts, and is frozen to death. The coachman's return, after being mocked at the society woman's home, to find his son dead, forms a tender closing to the picture. The vehicle stars Olga Chekova and a cast from the Moscow Art Theatre. On the same bill is "Metropolis" a picture produced a few years ago showing a fantastic city of the future. It is the first of a series of such popular films of the past which will be revived for the public by the Fine Arts management. The settings are marvelous, showing the tremendous buildings of the future, the deep subcellars, elevated roads and airdromes; but they are about the only worthwhile thing in the picture. The acting is terrible, bringing peals of laughter from the audience in some of the attempted serious scenes. The plot is of course almost fanatical in its attempt to show the machines of the future destroying men.

SYMPHONY HALL TONIGHT AT 8:30 DOPS ARTHUR FIEDLER, Conductor Program Changed Daily Seats 50c, 75c, \$1.00 2 Weeks in Advance

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## OFFICIAL BULLETINS OF GENERAL INTEREST

**Building Construction** Mr. Thomas F. McSweeney '16  
Monday, May 11, 10 A.M., Room 1-134

A course of illustrated lectures on "The History of the Art of Building" is being given under the auspices of the Department of Building Construction during the second term by Mr. McSweeney '16. Open to students and members of the instructing staff.

**Welding** Mr. Peter P. Alexander  
Monday, May 11, 4:00 P.M., Room 4-156

A series of lectures on "The Metallurgy of Welding and Its Industrial Application" is being given during the second term under the auspices of the Department of Mining Engineering and Metallurgy, by Mr. Alexander, Research Engineer, Thomson Research Laboratory, General Electric Company. Open to students and members of the instructing staff.

Wednesday, May 13, 10 A.M.—Room 2-190

Lecture by Professor D. J. Struik of the Department of Mathematics on Leonardo da Vinci, artist and engineer.

## CALENDAR

Monday, May 11

5:00 P.M.—Instrumental Clubs rehearsal, East Lounge, Walker Memorial.

6:00 P.M.—Alpha Phi Delta business meeting, Faculty Dining Room, Walker Memorial.

Tuesday, May 12

5:00 P.M.—Beaver Key Society meeting.

6:00 P.M.—Miss Irwin's bridge dinner meeting, Faculty Dining Room, Walker Memorial.

Wednesday, May 13

6:30 P.M.—Technology Catholic Club smoker, North Hall, Walker Memorial.

Thursday, May 14

6:30 P.M.—Mining Society dinner, Faculty Dining Room, Walker Memorial.

7:30 P.M.—Aeronautical Engineering Society meeting, North Hall, Walker Memorial.

Friday, May 15

6:30 P.M.—Track Team dinner, Faculty Dining Room, Walker Memorial.

9:00 P.M.—Technology Catholic Club formal dance, Main Hall, Walker Memorial.

9:00 P.M.—Alpha Phi Delta dance, North Hall, Walker Memorial.

Saturday, May 16

11:00 A.M.—Radio Society trip to Round Hill. Bus leaves Walker Memorial.

6:45 P.M.—Baton banquet, Faculty Dining Room, Walker Memorial.

## AWAY FROM THE GRIND

Beginning the wind-up of Technology social affairs for this year, four fraternities gave their final dances of the year last week-end, and one group made up of students from colleges in and around Boston held a formal dance in Walker Memorial Saturday night.

The Phi Gam's were hosts at a Cowboy Party, with a bar and all the fixin's, the Phi Mu Delta's and the Kappa Sig's held formal house dances, Phi Kappa Sigma gave a tea dance, and the F. F. Fraternity, national organization of Chinese students in America, held a formal dance.

The spirit of the wild and woolly West was quite prevalent at the Phi Gam's Friday night when about 150 couples came in costume to the Cowboy Party. Dancing to the music of Roy Lamson's orchestra, and making frequent trips to the bar where drinks and ice cream as well as the traditional bar lunch were served, the guests enjoyed themselves from 10 till 2 o'clock. Mr. and Mrs. George Wood served as chaperones for the evening. One of the features of the dance was the nickel-in-the-slot piano which added to the atmosphere of the decorated house.

Phi Mu Delta entertained with its last formal dance of the season Friday night, when more than 100 couples came to the house on Bay State Road. Mr. and Mrs. Leon Campbell acted as chaperones for the occasion. Music was furnished by Pin Rely and his orchestra. A color scheme of orange and black, the fraternity colors, was carried out in the decorations.

As the third fraternity to give its final dance of the season on last week-end Kappa Sigma held a restricted open house dance Friday night, followed by a formal dinner at the house. Roy Lamson's orchestra

played for dancing which continued until two o'clock. Varied colored lights made up the decorations for this affair which was chaperoned by Mr. and Mrs. William Mattson.

The pleasant spring weather Saturday was contagious, and the forty couples who attended the Phi Kap tea dance in the afternoon appeared in the highest spirits. Miss Anne Scott poured tea during the course of the afternoon. Roy Lamson and his orchestra played for dancing from four till seven o'clock, when a buffet supper was served.

Twenty-five couples from schools and colleges in and near Boston attended the F. F. Fraternity formal dance in the North Hall of Walker Memorial Saturday night from nine o'clock till midnight. This dance was the final social affair of the fraternity for the year. Decorations consisted of various colored lights, and a Boston orchestra played for dancing. Mrs. Mitchell served as chaperone for the evening.

## OPEN HOUSE MESSAGES ARE SENT BY SOCIETY

After working for two days and nights without a break the last of the Open House messages were relayed by the Radio Society. Over six hundred messages to all parts of the world were sent by the guests of the Institute to friends and relatives and were sent free of charge to their destinations.

Messages were received in the main lobby of the Institute and were transmitted to the radio "shack" by means of teletype machines loaned by the General Electric Company. After being received at the "shack" they were transmitted by the Radio Society's station to other amateurs in the vicinity of the destinations and relayed by the receivers to the addresses. Radiograms were sent to practically every State in the United States and to many foreign countries.

## Geologists' Names Used On Institute

Four Famed Geologists Among  
Scientists Whose Names  
Form Decoration

(Continued from Page One)  
probably just as important as his theories on the circulation of the blood, the latter was so different from the then existing ideas on the subject that he will always be remembered for it. For, up to Harvey's time the movement of the blood was thought to be slow and irregular in direction as well as in speed, and there was no conception whatsoever of the heart as the motive power.

Lyell Great Geologist  
Another of those mere names is Lyell, Sir Charles Lyell, one of the greatest geological thinkers the world has ever known. He was born in Scotland and educated at Midhurst and Exeter College, Oxford. From boyhood he had a taste for natural history and especially for entomology. However, after taking his degree he entered Lincoln's Inn and after a short time was called to the bar. But even during his law practice he slowly gravitated towards the life of a student of science.

In 1819 he was elected a member of the Linnean and Geological societies, and in the few years following made tours of France and Scotland. Shortly after his return from these tours he was made a member of the Royal Society from which, in later years, he received both the Copley and Royal medals.

Devotes Himself to Geology  
In 1827 Lyell completely abandoned the legal profession and devoted himself entirely to geology. Years earlier he had already commenced the sketch of his principal work, "The Principles of Geology," which is better called "an attempt to explain the former changes in the earth's surface by reference to causes now in operation." Such is the keynote of the task to which he devoted his life, and in pursuance of which he made geological tours over large portions of the Continent, and in later years to Madeira and to the United States and Canada.

The first volume of the "Principles of Geology" appeared in 1830 and a second two years later. Though both were received with considerable opposition in so far as the leading theory, the work had ultimately a great success, and had already reached a second edition when a third volume dealing with the successive formation of the earth's crust was added. The fourth volume, "Elements of Geology," became a standard work of reference in stratigraphical and paleontological study. This latter work went through six editions in Lyell's lifetime.

Another of his great works is "The Antiquity of Man," a general survey of the arguments for man's early appearance on the earth derived from the discovery of worked flint implements in the Post-Pliocene strata in the Somme valley and elsewhere, and in it he gives his support to Darwin's theory of the origin of the species.

Hutton Studies Law  
Another student of geology, one of the great founders of the science, was James Hutton. Born and educated in Edinburgh, he acquired while still a student a passionate love of scientific inquiry. Attempting to follow out the wishes of his father he was apprenticed to a lawyer, but being wholly unfitted for such a career he was soon released from his contract.

His choice was medicine, the profession nearest akin to his favorite, chemistry. After two year's study in Paris he secured a doctor's degree at Leyden. Returning to England he became discouraged in trying to find an opening for practice, gave up medicine, and devoted himself to agriculture.

At this time he became interested in earth formation, and from 1786 on he applied himself to those researches which have had so important an influence upon the progress of geology, a science which at that time did not exist. His most important work was "The Theory of the Earth." Later extensive study of the atmosphere led to "Theory of Rain." Natural philosophy, meta-physics, and agriculture also received the particular attention of this active man, books having been written by him on all three.

## BEAVER KEY SOCIETY

A Beaver Key Society meeting will be held Tuesday, May 12 at 5 p. m. Officers will be elected. Full attendance is requested.

One thousand one hundred and forty couples attended the Marquette university Junior Prom. The reason? Coon-Sanders Nighthawks.

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## Permanent Beard Remover, Note Taker In List of Wanted Inventions

Dry Water, Dream Recorder  
Also Wanted by Students  
At Willamette

Admitting that a college education is a great developer of the human mind, one would never think that any such slight stimulation as may be administered in a brief four years or less would have such an effect on the imagination as was disclosed in a series of tests run in the psychology classes of Dr. Ralph Winn at Willamette University, Salem, Oregon.

Some time ago in his classes, students were requested to make a list of desirable inventions, and some of the articles suggested as desirable would make even an Edison stand up and rub his eyes.

Girls Desire Shaving Cream  
While it would seem that any desirable things pertaining to shaving should come from the sterner sex, some co-eds in the course asked for "shaving cream that will permanently remove a beard." And another desirable article listed was "a sure method of producing hair on a bald head." The Willamette Collegian from which these facts are obtained makes the comment, "That's what might be called looking ahead."

Sorority pledges requested a machine to make beds and an ill-tempered person wishes for a mechanism that will whip cream and neighbors' children with equal efficiency.

Boy Wants Note-taker

Spring fever had a firm hold on some fellow. He expressed a desire for something or other, details were not mentioned, that would take notes in class and something else that would read aloud from a printed page.

Typewriters that will always spell correctly were the long-wanted objects of several students, and a means for securing an education in a short time was requested by a large number. But if they can't have this last, they want "infallible clocks and watches" and "silent alarm clocks for the mornings when the weight of the night-before is too much for early rising."

Desire Dry Water

In general one will admit that dry water is not the usual thing, but that does not in the least hinder the working of the imagination of some man who put in an order for "water that is not damp." And in the same vein comes a request for clothes that will not get dirty.

Drivers of collegiate "tin cans," something not very prevalent at the Institute, evidently use their cars after dark and for purposes which require more than one hand at a time, for they ask for "an automobile that brings its driver home just as the horse used to." To rid themselves of the curse of unwanted advice, they

## RADIO SOCIETY PLANS TRIP TO ROUND HILL

(Continued from Page One)  
at Round Hill for its coming trans-Atlantic flight. It is expected that those who attend the Radio Society's trip will have an opportunity to inspect this plane. Preparations for the flight are almost completed, and tests are now being made to determine whether the plane will rise under its extremely heavy load of fuel.

Issues Daily Weather Reports

The Round Hill Airport has been planned by Colonel Green as pioneering venture, in the hope that similar airports will some day be established throughout the country by the Government and by private agencies. One of its features is the daily weather forecast and barometric map issued especially for the use of fliers by the Institute's meteorological staff. Research into the penetration of various kinds of light through fog has formed an important part of the work at Round Hill.

The radio equipment consists of an official standard-frequency station, WIXP, and a number of experimental transmitters and receivers. Aerial field strength measurements, made using a Goodyear blimp, were carried on during the summer of 1929 by the radio research staff under the direction of Mr. Howard A. Chinn '28.

Officers of the Radio Society urge that all who intend to make the trip sign up in Room 4-202 as soon as possible, and in no case later than Friday morning, May 15.

## finearts theatre

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list as a desirable invention "means for disposing of back seat drivers." A couple of girls with inquisitive as well as imaginative minds ask for instruments, machines, mechanisms, or something of that nature that will record dreams and another of similar nature that will divine the thoughts of others.

Some ardent football fan requests an artificial stimulant to make football players run faster, but his girlfriend wants a silk stocking that will not run at all, or under any condition.

Several ask for a thing that has almost been reached, an automobile that will fold up. Another wants a life belt so small that it can be worn at all times. Perhaps it had rained every day for a week just before he took the test.

Someone, supposedly an amateur Sherlock Holmes, is interested in a burglar alarm which will photograph the intruder. A farmer's son wants a method for making clouds give off rain and a weather controlling machine.

But the desirable invention that we have all wished for at some time, was mentioned too: a telephone that will not ring at meal time. We presume that it must not ring during baths either.

## T. E. N. HAS SPECIAL ELECTRICAL NUMBER

Issue Celebrates Centennial of  
Michael Faraday

(Continued from Page One)  
phenomena of a situation so that it was said of him, "He smells the truth."

Broad Scope of Subjects

The issue also includes "The History of Electrical Engineering" by W. H. Timbie, Professor of Electrical Engineering, at Technology; a description of "A Million-Volt Air Condenser" by A. P. Fleming, a specialist in industrial education and research; "Floodlighting" by J. A. Summers, of the National Works; "Luminous Tubes" by D. McFarlan Moore, Fellow of the American Institute of Electrical Engineers; "The Thyatron" by Frank R. Elder, of the Research Laboratories of the General Electric Company; "Modern Lamp Photometry" by Orlich H. Briggs, of the Lamp Engineering Department of the Hygrade Lamp Company; and "Elevators for Skyscrapers" by E. W. Yearsley, of the Otis Elevator Company.  
D. V. R.

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