

SPEAKS ON ZEPPELINS IN ALDRED LECTURE



F. M. HARPHAM

ENTHUSIASM SHOWN FOR FREE SUNDAY AFTERNOON MUSIC

Administration, Corporation
And Faculty Display
Great Interest

CONCERTS INNOVATION

Present indications show that the series of free Sunday afternoon concerts, the first of which will be held on February 28, have created great interest in various parts of the campus. The administration showed particular interest in this new and as yet untried undergraduate social affair and have signified their intentions of attending.

Hostesses to be present at the concert on Sunday are as follows: for the Corporation, Mrs. Francis Hart and Mrs. Arthur D. Little; for the Administration, Mrs. Harry M. Goodwin and Mrs. Kathryn Wiswall; for the Dean's Social Committee, Mrs. Henry G. Pearson and Mrs. James R. Jack; for the Dormitory Committee, Mrs. Horace S. Ford and Mrs. Leicester F. Hamilton.

The program for the first concert, which is under the direction of the Instrumental Club, will include the following pieces: 1. Characteristic, "American Patrol"—Meacham; 2. Violin Solo; 3. "Song of India"—Rimsky-Korsakow; 4. Cello Solo; 5. Intermezzo, "On the Green"—
(Continued on page three)

Dr. Allan W. Rowe '01 Is Nominated To Presidency of Alumni Association

Named as Successor of Bradley
Dewey '09 Whose Term
Ends In June

Dr. Allan W. Rowe '01, director of research at the Evans Memorial of the Massachusetts Memorial Hospitals, and professor of Physiological Chemistry in the Boston University School of Medicine, has been nominated for president of the Alumni Association of the Institute to succeed Bradley Dewey, whose term expires in June. Nomination for this office is equivalent to election.

Dr. Rowe was graduated from the Institute in 1901. He is secretary of his class, and for many years has been a member of the advisory council on athletics, and its secretary-treasurer since the retirement of the late Major Frank H. Briggs. Dr. Rowe has participated in the Institute Alumni Association affairs to a greater extent than almost any other alumnus. He is a former member of the Executive Committee, and at the present time is a member of the Committee on assemblies, on housing undergraduate publications, on audit and budget, nomination for advisory councils, and on Alumni Association reorganization. He is

RUSSELL DECLARES SPECTROSCOPE TO BE KEY TO SCIENCE

Professor Russell of Princeton
And Mt. Wilson Gets
Much Applause

INTRODUCED BY COMPTON

"Even in astrophysics, prohibition does not prohibit," said Professor Henry Norris Russell of Princeton University and Mt. Wilson Observatory, in his Popular Scientific Lecture, "Revealing the Universe Through the Spectroscope." The talk was given here last night, under the auspices of the American Institute of Physics. Professor Russell made the above statement to qualify the assertion that quantum theory prohibits a certain event.

Loves the Beast

Introducing his subject, the spectroscope, Professor Russell exclaimed, "I love the beast. It's one of the most interesting things there is." One "master-key" in science that has solved many mysteries is the spectroscope, he said.

When a dense substance becomes incandescent, it gives off light which, when analyzed by a spectroscope, proves to be a mixture of many colors. But when the light emitted by a rarified gas is analyzed, it is found to consist of certain definite wave lengths that always indicate the presence of that particular gas. By use of this fact, the speaker pointed out, gases on the sun and on stars have been identified. Helium, by this method, was discovered on the sun before on Earth.

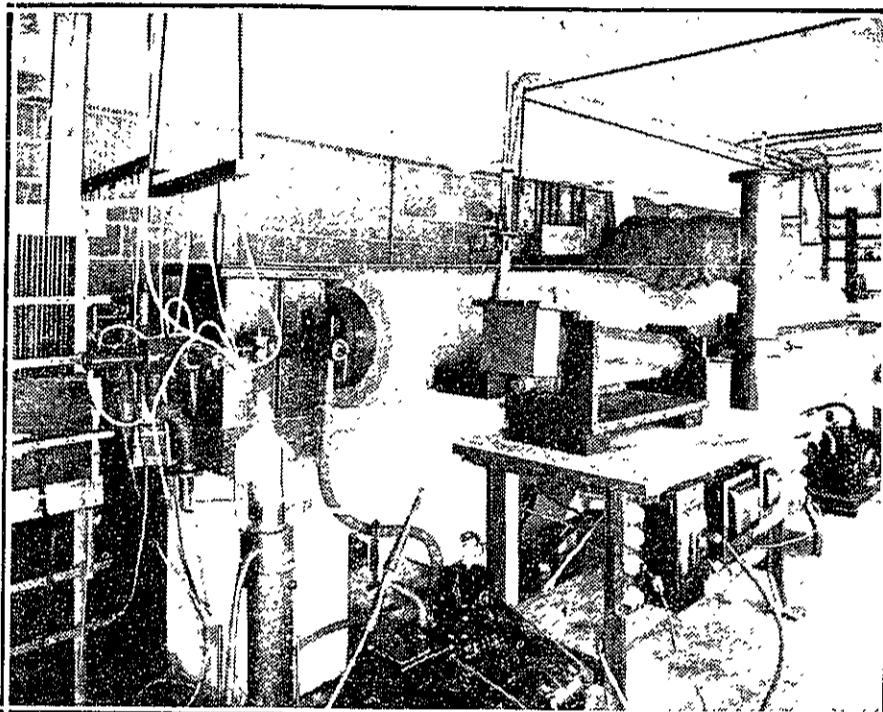
Proves Uniformity of Nature

The fact that different samples of a gas as distant from each other as nebulae from the Earth always give exactly the same spectral lines is, according to the speaker, one of the "most impressive proofs of the uniformity and unity of nature. To be exact, however, the spectral lines are not always constant. When the source of light is approaching or receding from the observer, a shift is seen in them. This is due to the motion, and is called the Doppler Effect." An important use of the spectroscope, continued the speaker, is in accurately determining the radial velocities of celestial bodies by means of the shift in their spectra.

In chemistry, the spectroscope also finds wide application. For instance, explained Professor Russell, it can be used to determine easily the amount of iron present in a fusible alloy, by analyzing the light emitted by the material. A small amount of iron has a great effect on the melting point of the metal, and so when it is used in automatic fire extinguishers it is important to know how much iron is present.

Scientific Societies Convene At Technology; Visit New Spectroscopic Laboratory

NEW VACUUM SPECTROGRAPH



The great 21-foot vacuum spectrograph in the new Spectroscopy Laboratory; designed by Professor George R. Harrison, director of the Spectroscopy Laboratory, this instrument makes possible improved studies of light in the short ultra-violet region of the spectrum. When the cylinder is evacuated the force exerted by the atmosphere on the outside is approximately 88 tons. The size of this huge spectrograph is indicated by comparing it with the one on the table, which is the size customarily used in this field of research.

UNIQUE FEATURES IN CONSTRUCTION OF NEW BUILDING

Entire Structure Is Insulated
Against Temperature
Fluctuations

OPENED FOR FIRST TIME

Interest in physical research centered at Technology yesterday with the opening of the joint meeting of the American Physical Society and the Optical Society of America. More than two hundred members registered for the opening session, which was devoted to the presentation of technical papers and to joint conferences of the two societies. Following the conferences, the members were the guests of Technology at a luncheon at Walker Memorial. The scientists then inspected the new Spectroscopic Laboratory, which was opened yesterday for the first time.

Many unique features have been incorporated in the construction of the new building and in its equipment for the study of atomic structure. The structure is virtually a ten-room building within a great refrigerator. Its chambers, enclosed by insulated concrete walls four feet thick, provide facilities for experiments of unparalleled delicacy in spectroscopy—the investigation of matter by study of the light emitted when electrons are hurled into the atoms of which it is composed. It is the spectroscope which has made it possible for astronomers to determine the composition of the heavenly bodies by studies of their spectra.

The rooms of the laboratory are built like the box of a camera—light-tight, windowless, and devoid of columnar support. In certain of these chambers all air drafts and temperature fluctuations, both serious menaces to experimental accuracy, are completely eliminated. The thoroughness of the insulation provided can best be judged by the estimate that, in case all heat were suddenly shut off in Boston's coldest weather, it would take three weeks for the temperature in the central well to drop one degree.

The steps taken to secure the greatest possible measure of isolation from all vibration, as well as temperature insulation, are elaborate. First of all, the inner building and outer building have entirely independent foundations and there is no connection of any kind between them. An air space of six inches separates the two structures.

The outer walls at the first floor are over four feet thick, made of brick, eight inches of cork, an air space, and concrete. A thick layer of cork covers the entire building. An electric heating system with thermostat control maintains a temperature at no time varying more than a tenth of one degree from 68 degrees Fahrenheit in the experimental rooms, while an automatic Carrier air conditioner guarantees a year-round humidity ranging between 35 and 45 per cent.

The walls and roof of the laboratory are built on outer wooden piles of their own, serving merely as housing around the workrooms. At no point do they touch the rigid floor foundation. Any intervening gaps between walls and floor or between second-floor partitions and the roof are chinked with felt, which deadens any vibration that might otherwise be communicated to the heavy groundwork.

Precast concrete piles driven through the deep underlying mud, some of them slanting to prevent lateral vibration, support a first and second concrete floor each three feet thick. Built up on the concrete base is a special isolated floor made of layer upon layer of fine round sand, cal-

(Continued on page four)

ALDRED LECTURER SPEAKS TODAY ON USES OF AIRSHIPS

Films Showing Construction of
Akron Will Be Shown
After Lecture

CROSSED OCEAN ON GRAF

"Zeppelin Airships—Their Performance and Possibilities," will be the subject of the third Aldred lecture to be delivered in Room 10-250 today at 3 o'clock. Mr. F. M. Harpham, Vice-President of the Goodyear Tire and Rubber Company and of the Goodyear-Zeppelin Corporation, will be the speaker. This lecture is open to upperclassmen and to members of the Faculty.

Two motion picture films depicting the construction of the world's largest airship, the *U.S.S. Akron*, and the dock in which it is housed, will be shown after the lecture. It is expected that this lecture will be of especial interest, because of the recent controversy concerning the dependability of the giant craft.

Mr. Harpham intends to speak not only of the *Akron*, but airships in general, and on their possible uses in commercial fields. That he is qualified to speak on the subject is indicated by the fact that he is a member of the firm which constructed the *Akron* as well as several smaller craft, and that he crossed the Atlantic aboard the *Graf Zeppelin* when that ship was the largest of its kind.

In an article in "The Sportsman Pilot" of June, 1931, describing his voyage Mr. Harpham said, "How one occupies himself aboard the airship; how comfortably one sleeps, if at all; how one feels; what the thing is like from the standpoint of the lay passenger—these things may well wait until the novelty of spectacular achievement has worn off.

"There is in this country, however, two great groups of financial and transportation men who are taking the necessary technical, legal and administrative steps today toward the establishment of airship passenger lines, one to operate over the Atlantic, the other over the Pacific."

RECORDS MAY BE BROKEN IN ANNUAL INTERCLASS MEET

Trackmen Of All Classes To
Enter. Large Number
Of Men Signed Up

BELL NOT TO RUN 50-YD.

Men representing all the four classes will compete in the Annual Indoor Interclass Track Meet. This meet takes place tomorrow afternoon at 2.30 o'clock on the board track in back of the track house.

Twelve events will be contested, comprising both track and field work. Events scheduled are as follows: 50-yard dash, 60-yard low hurdles, 300-yard dash, 600-yard run, one-mile run, mile-and-a-half run, 1000-yard run, 45-yard high hurdles, broad jump, high jump, shot put, and pole vault.

All men in the various classes are eligible
(Continued on page four)

CANNOT SUBSTITUTE MANAGING FOR P. T.

Former Soccer Manager to Take
Charge of Boxing Team

Freshmen who enter competition for positions as sport managers will not be allowed to substitute that activity for Physical Training, it was announced after a meeting of the Executive Committee of the M.I.T.A.A. last Tuesday. An attempt has been made to change the rules to allow that substitution to be made so as to place managers and players on the same basis in that respect, but it was decided that such a change would be unwise, as a similar arrangement was in force in former years and proved to be a source of much trouble.

The Committee also announced that a new manager for the boxing team, Walter R. Duncan '33, has been elected to replace Charles P. Britton '33, who has resigned. Duncan was formerly manager of soccer.



DR. ALLAN W. ROWE '01

likewise a member of the Alumni Advisory Council on the boathouse.

Following his graduation from Technology, Dr. Rowe carried on research at
(Continued on page four)

A Record of Continuous News Service for Over Fifty Years



Official News Organ of the Undergraduates of M. I. T.

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OPEN HOUSE

THE first reaction to the announcement concerning the temporary suspension of Technology's Open House, usually scheduled for the last Saturday in April, is likely to be a low groan as one visualizes another of our time-honored activities defaulting its place in the yearly calendar of events. A less hurried consideration of this decision would show that the authorities have not "beat a hasty retreat" in the face of an apathetic response to their previous efforts as has been the necessity in other cases, but have made a judicious move which will serve to insure the continued success of this occasion on which the Institute opens its doors to the public.

In the first place, the majority of this large group of visitors is made up of residents of Greater Boston, most of whom repeat their visits from year to year or as often as the opportunity presents itself. This means practically the same assemblage from one Open House to the next, but does it allow for the same exhibitions? It does not. The audience is, naturally enough, looking for a new "show" every time but it is impossible to vary the performance completely within the short interval of twelve months. It has therefore been considered advisable to lengthen this interval in order to insure a greater change in the experiments shown whereby the layman's interest would be sustained through the coming years rather than dulled to a sophisticated yawn by a necessary repetition of events.

Its annual continuance might be defended from the standpoint of providing the necessary means of familiarizing the prospective Technology undergraduate with the advantages which the Institute offers him. However it must be remembered that a new school generation appears only once every four years, allowing a corresponding period of time in which to establish this acquaintance.

Considering the question on a purely pecuniary basis, the outlay of several thousand dollars requisite for the promotion of this activity could hardly be disregarded in this period of necessary retrenchment. Other arguments pointing as they did to the advisability of suspending Open House for a year, such an expenditure was felt unwarranted.

The students in charge of this event have done a notable service in the past and stood ready for duty when the question of its suspension came up for consideration this year. If this decision serves to establish the biennial observation of Open House Day as a precedent, it presages an even greater degree of success for this important activity in the future.

JUSTIFIABLE PRIDE

TECHNOLOGY'S newest development, the Spectroscopic Laboratory, was fittingly opened yesterday to the joint meeting of the American Physical Society and the Optical Society of America. This new advance in scientific equipment, designed by Institute research men as the answer to their needs, is a source of great credit to Technology and of new and pardonable pride to both the Faculty and the undergraduates.

Unlimited possibilities for research are now available for use in delving into atomic structure. Giant, yet delicate apparatus, offer promise of giving to science new facts concerning the atom which have heretofore been impossible. The new vacuum spectrograph will make possible the use of the ultra-violet spectrum to a greater extent than ever before. The whole giant laboratory is an achievement, one indeed a credit to the Institute. May the results of the equipment reflect the great work that has gone into the planning and building of the laboratory.

Reviewer of Voo Doo Fails to Appreciate Political Tendencies

Phos Searches Hard For Humor, Resorting To Old Time Mud Slinging

Phosphorus surprised the Institute by directing his feline humor in the direction of politics. Dabbling in this subject, so says an old and worthy proverb, is the first sign of a degenerating mentality. It is hoped that our bewhiskered friend, by dint of his proverbial nine lives, may be able to escape this fate.

This politicomania, if we may take the liberty of using such a term, certainly took on a rather virulent form, we should judge, for Phosphorus, scratching hard for humorous material, even went so far as to seize in his clutches our most esteemed Uncle Horace. The worthy Bursar, of five-dollar-fine fame, found that his fine system had been so far extended as to assume national proportions. Another one of these "depression chasers." We were really disappointed to see Phosphorus stick his whiskers into the maelstrom of financial troubles; we thought he was above that.

For the past two days the Institute has been a dangerous place for anyone who was not Voo Doo-minded. Phos has been so efficiently peddling his wares that it was almost impossible to go from Building 1 to Building 2 without being reminded at least three or four times that the Voo Doo was out. That's what you call, in words of two or three syllables, ramming humor down your necks, or making you laugh in spite of yourself. At any rate, Phos's sales methods are certainly damnably efficient.

Phosphorus cannot, somehow or other, quite purge himself of his catty characteristics. The entire issue has its usual feline drool; its artistic elements consist largely of Ballyhooc caricatures; even its editorials somehow seem unable to stay sober for any length of time. We somehow feel that, like the cart that goes before the horse, so do many of the humorous drawings precede the captions.

One wonders when examining Voo Doo whether the magazine isn't becoming an established and standardized lineup, whether it is not following some fixed and long-standing formula of construction.

As We Like It

MAJESTIC THEATRE

"Everybody's Welcome"

In "Everybody's Welcome," the musical comedy starring Frances Williams and Oscar Shaw at the Majestic Theatre, Katherine Brush's popular novel of a few years back, "Young Man of Manhattan," finds its most lyric and at some moments its most entertaining interpretation. The story of a supported husband was first transcribed to the movie of the same name and later served as the theme of one of last season's successful stage comedies, "Up Pops the Devil."

Those moments in which interest did reach a new high were due almost entirely to the presence of one Frances Williams, with an able assist by loose-legged Tom Harty, one of Boston's local boys who made good in the Big City. Miss Williams who really looked as if she were enjoying herself, possesses a sly sense of humor which coupled with a voice of mellow and effortless tones, makes her a personality always worthy of first attention. Tom Harty is a triple-jointed hoover with a bewildering leg motion which should have earned him more than one appearance during the entire evening.

Oscar Shaw is responsible for intermittent bits of humor, Ann Pennington contributes her usual soft shoe routines and Harriette Lake makes a very personable young second lead.

The show carries a small but fair dancing chorus. The humor is spasmodic, and it remains for the music to carry the brunt of the interest. The lyrics contain several catchy tunes, among which are "As Time Goes By," sung to encores by Frances Williams, "Even As You and I," "Lease On My Heart," "Is Rhythm Necessary," and a good specialty number, "Nature Played a Dirty Trick On You." The action is slightly shopworn after a sizeable New York run, and the lines are run over hurriedly in some parts, but the show can be recommended on the basis of Frances Williams and Tom Harty alone, as two excellent entertainers.

W. L. S.



"A few fleas is good for a dog," says Mark Twain, "They keep him from brooding too much on being a dog." And a little griping at the status quo is good for a grind. It keeps him from worrying too much about his parlous state, his single F's, and his tabular view, whatever that is. If he can gripe at the Faculty, or his lunchroom, or his haircuts, he somehow feels better. Many an army officer feels that the morale of his organization is poor unless he hears them beefing about the quality of beans and sowbelly that is dished out to them.

It is the job of the dear old Lounger to make vocal some of the outstanding features around the Institute that give him a pain in the —, also anything else that ferments in his cerebellum. But like the Army man who will gladly pick a fight with anyone that disparages his outfit, the Lounger will raise hell with any outsider who picks on the Institute.

If some of the hot stuff that we have planned materializes, we will have to hire a bodyguard, a la Winchell. Applications should be sent to THE TECH office, where the office boy will take it to the Lounger's palatial office — you know, the one with the water-cooled secretary and the shapely drinking fountain.

For no good reason at all, the Lounger is reminded of a country hotel he stayed in one night. It was in what H. L. Mencken would call the "Bible belt," and it was the most godawful habitation man has ever set foot in. And being where it was, it didn't even have the boost of having once been occupied by George Washington. And a good thing for George that he never was there. It wasn't so bad being over the kitchen, with no smell or sound insulation. But our usually patient soul became stirred, when on waking at 3.00 a.m., we discovered that someone, probably the pediculous inhabitants of the room, had moved the white porcelain object from its place under the bed. To add to that, the architectural triumph of the Specialist's art was about a quarter of a mile from the hotel, nicely situated in a bed of nettles. Ah, well, nature must be served. Not only the Lounger, but the proprietor, was sorely pained the next morning when, on going to the kitchen to wash, your correspondent plunged his face into the soup pan instead of the washpan. We are still convinced that they served the soup for breakfast, anyway. Fortunately, it is only in the backest of backwoods that that could have happened. Since science, in the person of the plumbing fixtures salesman, has triumphed, that sort of thing is just about stamped out.

We wandered into the new Spec Lab today, and despite tripping over budding research workers — don't worry, boys, we

BEAVER KEY OFFERS DANCE AFTER GAME

Third Of Series Of Basketball Dances Held Tonight

Following the basketball game with New Hampshire tonight, the Beaver Key Society will give a dance in the Main Hall of Walker Memorial. The dance will continue from 9 till 1 o'clock, with the Technicians supplying the music.

This will be the third dance after basketball games sponsored by the Society, all of which have been considered successful. The others were held on Saturdays, and lasted only until midnight. This time, however, the dance will last till 1 o'clock. The price of admission is seventy-five cents per couple, and tickets may be secured at the game, or from members of the Society.

know you don't know what it's all about either — managed to get a pretty good look at the place. In spite of the trick gadgets for spectroscoping, the Lounger's childish attention was attracted most by the dingus that regulates the temperature. Entranced by its little jerks and jiggles that seemed to be its main purpose in life, we observed its work for the better part of an hour.

(Continued on page three)

Lydia Lee Luncheon
 EXTRA COFFEE
 WITH YOUR DINNER
 We Do All The Cooking
 OPEN 7:30 A. M. to 3:00 P. M.
 Opposite Aeronautical Laboratory

Opposite the new Waldorf Astoria
 Home of the famous swimming pool
 The SHELTON
 at 49th and Lexington NEW YORK

When the Shelton opened (7 years ago) we began catering to college men and women. Gradually their patronage has increased; we feel safe in asserting that more students make the Shelton their New York home than at any club or other hotel. One reason for this is the free recreational features plus a desire to serve on the part of Shelton employees. Room rates have been greatly reduced. Rates from \$50 per month upward. A room from \$2.50 daily.

Club features (free to guests) are as follows: Swimming pool; completely equipped gymnasium; game rooms for bridge and backgammon; roof garden and solarium. Restaurant and cafeteria service at reasonable prices.

You have been waiting for these!

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A selection of new patterns that will please you. We have them in plain colors, stripes, and conservative patterns at a price in keeping with the times, from

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Shirts

ARROW, TRUMP and BURTON'S IRISH POPLIN

In white and colors. Sanforized shrunk, guaranteed to fit. Priced at \$1.95 and \$2.45.

There are a few shirts left at

\$1.20

TECHNOLOGY BRANCH
 H. C. S.

**Institute Committee
Makes Re-Allotment
For Walker Offices**

**Give Dramashop New Office and
M. I. T. A. A. and Musical
Clubs Get Space**

After three quarters of an hour discussion and five ballots, the Institute Committee approved a new allocation of rooms on the third floor of Walker Memorial. This action was taken at a meeting late yesterday afternoon, following consideration at two previous meetings. Senior Week elections were approved unanimously on the first ballot at yesterday's meeting.

Give Dramashop Office

Dramashop was given office space in Walker for the first time, while *Voo Doo* received the office formerly occupied by Tech Show, and *Voo Doo's* old office was divided between Dramashop, M.I.T.A.A., and the Combined Musical Clubs. The latter two now have this new space, besides the same offices they had before. *Technique* and THE TECH business office are the same as before. The old *Voo Doo*

**ENTHUSIASM PRODUCED
BY SUNDAY CONCERTS**

(Continued from page one)

Goldman; 6. Clarinet trio; 7. Mazurka, "La Czarine" — Gannes.

Ushers assigned to take charge of the concert are as follows: from the Dormitories, Lawrence W. Whitaker '32, Walter A. Shaw '33, George O. Henning '33, and Leon Wallerstein, Jr. '33; from the Combined Musical Clubs, David G. Greenlie '34, Edward L. Asch '34, Richard H. Sanders '35, and A. Gardner Fox '34.

office will have a partition built in the middle, and Dramashop and Musical Clubs will share the half nearest the gym. The new allotments were finally approved by a unanimous vote. After a one-hour session, the Institute Committee meeting adjourned.

Life of Party

Dr. Ronald A. Laird, professor of Psychology at Colgate College, advises a young man never to marry the co-ed who is the "life of the party," if he wants a wife of a "lively personality."

**Bell Expert To
Lead Colloquium
Here on Monday**

**Dr. R. H. Colley Will Conduct
First of Series of E. E.
Colloquiums**

Continuing a practice of some years' standing, the department of Electrical Engineering will open its second term series of colloquia on Monday, February 29. Dr. R. H. Colley, of the Outside Plant Development Department, Bell Telephone Laboratories, will have charge of this first meeting. He has chosen as his subject, "Timber Products In Communications."

The colloquia promises to be unusually interesting since the Bell Telephone Laboratories have been conducting a most extensive study of timber products. Dr. Colley, who has been in complete charge of this work, is planning his course so as to include a discussion of timber supply, specifications, preservation of existing timber stands, and the most practical methods of utilization.

THE LOUNGER

(Continued from page two)

Some day, when Dr. Compton or some other important physicist is speccing away for dear life, we want to sneak up behind him and slip a blond hair or something into the machine and then watch the fun.

You oughter see the titles of some of the papers they are presenting at the Optical and Physical Society conventions. Sample: "The Computation of Trichromatic Excitation Values by the Selected Ordinate Method." Now the Lounger knows why he has courses in English. Simple, Elmer: So he can spell the titles of the papers he is going to present someday. Our battle-cry: Ain't science wonderful! But we'll bet they never will learn us to spell "receive!"

The program will be treated as specifically as possible, and the course will be continued on Tuesday, March 1, so that every detail of the subject may be covered. The colloquia will be open to Seniors, graduate students and Junior honors students.

It is against the rules at Barnard College for freshmen to laugh at Faculty jokes.

CASH SALE

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FINE FURNISHINGS**

Also worthwhile reductions on gloves, hats, slip-on sweaters, etc.



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"That can't be an accident. It stands to reason . . . a cigarette that *always* tastes better . . . has got to be *made* better. You know what I mean . . . purer materials . . . more up-to-date ways of working. I'm willing to bet that's why my last Chesterfield of the day is as mild and satisfying as the first!"

THEY'RE MILDER . . . THEY'RE PURE . . . THEY TASTE BETTER . . . *They Satisfy*

OFFICIAL BULLETINS OF GENERAL INTEREST

Physics and Physical Chemistry Harvard University
Friday, February 26, 10.00 a.m.
Pierce Hall 110, Cruft Laboratory, Room 316, Jefferson
Physical Laboratory, Room 250
Meetings of Physical and Optical Societies.

Friday, February 26, 3.00 p.m., New Lecture Hall
Joint Symposium on Electronic Devices, with talks by A. W. Hall and G. F. Metcalf.

Aldred Lecture Mr. F. M. Harpham
Friday, February 26, 3.00 p.m., Room 10-250
Mr. F. M. Harpham, Vice-President of the Goodyear Tire and Rubber Company, will speak on "Zeppelin Airships—Their Performance and Possibilities." This lecture will be followed by a second hour of motion pictures.
Open to upperclassmen and members of the Faculty.

Colloquium Electrical Engineering Department
Monday, February 29, and Tuesday, March 1, 2.00 p.m., Room 10-275
Dr. R. H. Colley, Outside Plant Development Department, Bell Telephone Laboratories, will lead the colloquium which is to be on the subject, "Timber Products In Communications."
Open to Seniors, graduate students, and Junior honors students and members of the instructing staff of the department of Electrical Engineering.

C.A.L.E.N.D.A.R

Friday, February 26, 1932

3.00 p.m.—Aldred Lecture on Zeppelin Airships in Room 10-250.
5.00 p.m.—Chess match, Faculty Dining Room of Walker Memorial.
7.30 p.m.—Basketball with New Hampshire, Hangar Gym.
9.00 p.m.—Beaver Key Society dance, Main Hall of Walker Memorial.

Saturday, February 27, 1932

2.00 p.m.—Gym meet with Princeton, Walker Gym.
7.30 p.m.—Boxing match with B. U., Hangar Gym.

Undergraduate Notices

TECH CABIN

Tech Cabin will be open for use this weekend. Application should be made at the T.C.A. office in Walker Memorial as soon as possible.

Scientist Inspect New Laboratory for Spectroscopic Work

Building is Insulated Against Temperature Changes And Vibration

(Continued from page one)

culated to absorb vibrations entering on a horizontal plane. This floor is six feet thick. Asbestos board and concrete are interlaid for structural support, and a heavy sheet of cork serves to negate vertical shocks. As though this were not enough, the designers have taken the final precaution of mounting the most delicate instruments on special concrete pillars.

The extraordinary structure occupies a site entirely surrounded by massive Institute buildings, whose heavy foundations serve to protect it from many of the earth waves beating in from adjacent highways and industrial plants. It is entered from the Physics and Chemistry Building, through a series of three doors, carefully designed to minimize drafts and temperature variations. As a final protection against extremes of weather, an umbrella roof made of steel caps the entire building.

The Grating Rooms

One room is 38 by 45 feet, another 30 by 30. These big rooms are giant spectrum laboratories. In them light is broken into its rainbow colors, the spectrum. In the largest room these colored beams are projected upon photographic plates ranged in a half moon about the light source.

The light beam of the substance being studied enters the room through a small opening and strikes what is known as a grating. This instrument is in effect a metal mirror six inches in diameter. Upon its face are 90,000 diamond-ruled lines, 15,000 to the inch. The light upon striking this grating is broken up into the colors of the spectrum and reflected at various angles to the photographic plates, which stand about the room playing their part in what might well be termed a scientific round table of light.

Source Room

The central corridor of the building serves as a light source and control room. Here the various ducts of the Carrier air-conditioning system enter from an outside building. The walls are lined with switches and instruments, among them being a great temperature recording instrument

BOXERS EARN TIE WITH COAST GUARD

Captain Cooper and Freshmen Combine to Score All Institute Points

Helped along by the pick of the freshman squad, the boxing team got a fifty-fifty break with the strong Coast Guard team last Saturday afternoon at New London. Technology lost the first four matches and then came back strong and captured the last four to make the final score 4 to 4. The team as a whole showed much improvement over last year when they dropped an informal match to the same time. At this time Cooper was the only winner.

Saturday, Captain Cooper turned in the quickest knockout of the evening when he put David of the Coast Guard to sleep in the first minute of the first round. All four of Technology's wins were by the knockout route, three of them by freshmen.

The entire summary is as follows: Walsh, C.G. won a decision from Stucinsky; Thayer, C.G. beat Brooks on a technical knockout; Armstrong, C.G. won from Carey by a decision; and Peel, C.G. grabbed the decision from Wetherell. For Technology, Wills knocked out Rohnke; Wissenbach knocked out Shunk; Captain Cooper put David to sleep; and Collins K.O.d Stubbs.

There should be plenty of fireworks this Saturday afternoon when Boston University's boxing team invades the Hangar intent on scalping Coach Tommy Rawson's charges. Considering the good showing the Institute boxing team made against the Coast Guard, this will be no easy task. Boston University dropped a meet to New Hampshire last week and does not intend to lose two in a row. Captain Cooper will probably have something to say about this, after his flashy work in the Coast Guard meet. The line-ups are as follows.

| Freshmen | Varsity |
|---------------------|-------------------------|
| 125 lbs.—Brooks | 125 lbs.—Stucinsky |
| 135 lbs.—Wills | 135 lbs.—Carey |
| 145 lbs.—Reed | 145 lbs.—Wetherell |
| 155 lbs.—Lane | 155 lbs.—Malmstrom |
| 165 lbs.—Wissenbach | 165 lbs.—Cooper (Capt.) |
| 175 lbs.—Collins | |

which shows the exact temperature in any of the rooms at all times.

In another laboratory is the vacuum spectrograph of unique design developed by President Karl T. Compton and Dr. Joseph C. Boyce for studies in the extreme ultra-violet region of the spectrum.

Interclass Meet May Bring Forth Broken Records

All Classes Will Send Trackmen To Interclass Meet This Saturday

(Continued from page two)

to tryout in the contests, and the entry list is now very large.

Dick Bell, the Institute's New England Intercollegiate 40-yard dash champion, will not run in any of the events tomorrow, a rest being advised by Coach Hedlund. In the 50-yard dash, a complement of 23 men have signed up. This field will probably be led by Kinraide, Wrigley, Holby, Ball, Keefe, and Sharpe, with Kinraide, Wrigley, and Holby being the fastest men. In the N.E.A.A.U. meet in which Bell won his spurs, "Red" Holby will be remembered as coming in third place in the 1000-yard run, without a handicap.

Record May Fall in Hurdles

Lockhart, Bartlett, Prestwich, Pierce, and Hill were considered by Coach Oscar Hedlund as logical leaders of the eleven men running the 60-yard low hurdles. Of these five hurdlers Hill is picked as the winner, and as a possible breaker of the Institute record for that event.

In the 300-yard dash more than fifteen runners are listed, with Mulliken selected as the most likely man to win, although he will have hard work against Horton, the fast freshman; Holby, Hill, and Fong.

Jewett Hits at Own Mark

Jewett, captain of the Technology track team, holds the Institute's interclass record in the 600-yard run, setting it at 1:15 flat, and tomorrow he is running with the intent of breaking it and setting up another. The only other man dangerously near his speed is Herkart. In all, only five will be entered in this event.

Hall, holder of the Institute record in the mile run, is entered in the mile. He will endeavor to beat his own time tomorrow, although it is predicted that Kearns and Mann will push him to the limit.

Holby Picked as Winner

In the 1000-yard run, "Red" Holby is picked as fastest man, and he is going to try to better the interclass record made in this run by Charles Hall, who did it in 2:25 flat. Eight other men are entered, most notable of whom are Buresh and Talbert.

Kearns is expected to do fast work in the mile and a half run, although he is certain to be pushed hard by Clarke and Mann. Kearns is just getting back into condition from being out because of a bad knee accrued in his notable work in cross-country, this fall.

Finishing the list of track events in the meet is the 45-yard high hurdles, in which five men will run, led, according to predictions, by Pierce, Lockhart, and Bartlett.

Wrigley in Broad Jump

In the field events Wrigley, Allen, and Lockhart are reckoned best in the broad jump, with Wrigley being expected to make jumps close upon those which gave him fourth place in the University Club meet. He holds the Institute interclass record which is just short of twenty-two feet.

Coon will be looked to, to make the best

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DR. ROWE NOMINATED PRESIDENT OF ALUMNI

(Continued from page one)

Wesleyan University for two years, and then upon his appointment as a Swett Fellow, went to Germany for two years of further study at the University of Göttingen, where he was awarded his doctorate. In 1908 Dr. Rowe was appointed professor of Chemistry at Boston University, and at that time was affiliated with the graduate school of Harvard University, and for several years carried on research with the late Professor T. W. Richards.

Dr. Rowe is a fellow and member of numerous scientific societies. He is an honorary fellow of the American Medical Association and of the Massachusetts Medical Society; a fellow of the American Academy of Arts and Sciences and of the American Association for the Advancement of Science; a member of the American, French, and English Chemical Societies, the American and French Biochemical Societies, the American Physical Society, the American Physiological So-

ciety, the Society for Experimental Biology and Medicine, and chairman of the Council of the Society for the Study of the Internal Secretions.

Dr. Rowe was the first honorary secretary of the International Society for Anaesthesia Research, and is a member of Theta Xi and Phi Beta Kappa fraternities, and of the St. Botolph, University and Union Boat Clubs. He is a trustee of the Boston Psychopathic Hospital.

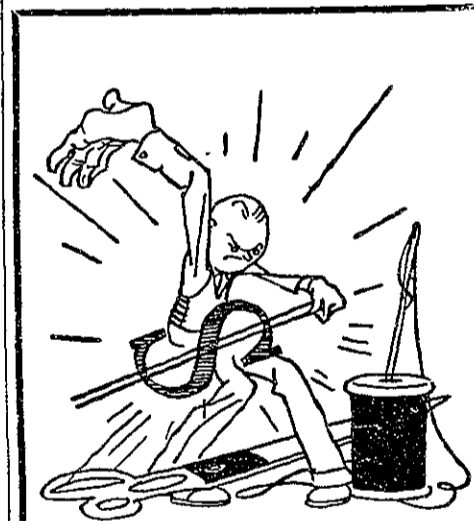
jump in the high jump, as he does in the neighborhood of five feet ten or eleven inches. Walker is also expected to jump, and he, in the company of Tomlinson and Pierce, is expected to rank high. Lovering took the first place in the shot put in the freshman meet with Dartmouth. Other hurlers who are expected to show well are Max Winerman and Alschuler.

Green Leads Vaulters

Two men in the pole vault of especial merit will be Green and Dixon. Green vaulted up to eleven feet six inches at the University Club meet, and Dixon tied for first place in the freshman meet with Dartmouth.

Following is the entry list, corrected to Thursday, February 23, 1932:

50-yard dash: Kinraide, Wrigley, Hoag, Holby, Ball, Keefe, Ferchaud, Colby, Morgan, Allen, Wood, Coleman, Timmerman, Greenlaw, Hill, Purcell, Nelson, Chuck, Fong, Brooks, Sharpe, Haggerty.
60-yard low hurdles: Lockhart, Bartlett, Prestwich, Pierce, Colby, Greenlaw, Hill, Carmichael, Nelson, Wall, Hall.
300-yard dash: Hoag, Holby, Ferchaud, Hill, Horton, Tebbetts, Snow, Cettomai, Alden, Fong, Pietrowski, Haggerty, Foley, Mulliken.
600-yard run: MacAdam, Jewett, Lytle, Herkart, Scribner.
One-mile run: Hall, Barrett, Mann, Clarke, Holby, Talbert, Root, Kearns, Alden.
One and one-half mile run: Hall, Mann, Clark, Talbert, Kearns, Lincoln.
1000-yard run: Hall, Buresh, Barrett, Clarke, Mann, Holby, Talbert, Boyajian, Alden.
45-yard high hurdles: Lockhart, Pierce, Colby, Bartlett, Prestwich.
Broad jump: Kinraide, Lockhart, Wrigley, Ball, Colby, Allen, Morgan, Fox, Snow, Wall, Sharpe.
High jump: Pierce, Lippold, Benjamin, Fox, Clapp, Tomlinson, Coon.
Shot put: Lockhart, Winerman, Greenlaw, Lovering, Newell, Alschuler.
Pole vault: Green, Prestwich, Pierce, Dixon.



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ATTENTION FRATERNITIES
Fraternity social chairmen are requested to 'phone in reports of dances and other social events to the News Room of THE TECH on Sunday mornings between 11 and 12 o'clock. Include all the details.

CHESS CLUB

A meeting of the M. I. T. Chess Club will be held in the Faculty Dining Room in Walker Memorial this Friday at 5 o'clock. All are urged to come, members or non-members.

ciety, the Society for Experimental Biology and Medicine, and chairman of the Council of the Society for the Study of the Internal Secretions.

Dr. Rowe was the first honorary secretary of the International Society for Anaesthesia Research, and is a member of Theta Xi and Phi Beta Kappa fraternities, and of the St. Botolph, University and Union Boat Clubs. He is a trustee of the Boston Psychopathic Hospital.



Sunday, Feb. 28

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