

OFFICIAL BULLETINS OF GENERAL INTEREST

Physics Colloquium Prof. E. B. Warren; Mr. J. P. Vinti
Thursday, January 15, 4 P.M., Room 4-231

Papers will be presented as follows: Professor B. E. Warren: "X-Ray Studies of Some Complex Silicates," and Mr. J. P. Vinti: "Calculation of Atomic Energies."
Open to graduate students and members of the instructing staff.

Popular Science Lecture Prof. Edward L. Bowles, S.M.
Sunday, January 18, 4 P.M., Room 10-250

Professor Bowles, Associate Professor of Electrical Communication, will be the speaker at the Popular Science Lecture, which is under the auspices of the Society of Arts. The subject of his lecture will be "Recent Developments in Communication By Radio."

CALENDAR

Wednesday, January 14th

5:00-6:00 P.M.—Banjo Club rehearsal, East Lounge, Walker Memorial.
5:00-6:30 P.M. Pi Delta Epsilon meeting, West Lounge, Walker Memorial.

7:00-9:00 P.M.—Instrumental Club rehearsal, East Lounge, Walker Memorial.

7:30-10:00 P.M.—Chemical Society Meeting, Faculty Dining Hall, Walker Memorial.

6:30-10:00 P.M.—Civil Engineering Society Dinner Meeting, North Hall, Walker Memorial.

7:30-10:30 P.M.—Tech Show rehearsal, Walker Gym.

Thursday, January 15

7:00 P.M.—Armenian Club Smoker, North Hall, Walker Memorial.

7:30-10:30 P.M.—Tech Show rehearsal, Walker Gym.

2:00 P.M.—Chemical Society trip, Starts from Main Lobby.

Friday, January 16

5:00-6:00 P.M.—Banjo Club rehearsal, East Lounge, Walker Memorial.

6:30 9:00 P.M.—Class of '11 dinner, Grill Room, Walker Memorial.

7:30-10:30 P.M.—Tech Show cast rehearsal, Walker Gym.

8:00-12:00 P.M.—Chess Team Contest, Faculty Dining Hall, Walker Memorial.

9:00 P.M.-2:00 A.M.—Dorm Dance, Main Hall, Walker Memorial.

UNDERGRADUATE

Infirmiry List

Khitish C. Biswas, Asst.
John R. Farmer '33.
Edward H. Hayes '31.
Ernest S. Johnson '31.
Richard L. Laukes '31.
E. J. Salstrom, Instructor.
Neil F. Schappert '34.
Bunichiro Sugimura '35.
Edward R. Toporek, Grad.

FRESHMEN IN SECTIONS 8-14 AND 22-28

Due to the Popular Science Lecture of Professor Bowles on Friday, January 16, in 10-250 it is necessary to change the chemistry lecture hours as follows:

Professor Blanchard will give his lecture to sections 8-14 on Saturday, at 9 A. M., instead of 10 A. M.

Professor Smith will give his lecture to sections 22-28 on Saturday at 11 A. M., instead of Friday at 2 P. M.

A. I. E. E. INSPECTION TOUR

All students who have signed up to visit the Edgar Generating Station this afternoon are reminded that the trip will start at the main lobby this afternoon at 2:00 o'clock. Students may also join the group outside the Station at 3:30 o'clock.

Freshmen Will Enjoy Bonfire

Class of 1934 Makes Plans For Cremation of Neckties At Celebration

"Freshmen will have the traditional bonfire in the spring and should keep their ties for the occasion," Henry D. Humphreys '34, president, definitely stated yesterday. The class ties, treasured mud-scarred relics of the victorious Field Day, will be cremated in a bonfire around which the freshmen will dance. The ashes will be buried among the roots of a tree to be planted by the class; the tree to be a permanent reminder of the life and activity of the class of '34.

Although the traditional bonfire has had a hard life to date, one out of three being successful, the perseverance of this year's freshman officers, promises to produce a notable event. Negotiations are underway to procure prominent speakers and "Obie" Denison, who will lead in songs and cheers.

At a meeting of the class representatives tomorrow plans will be made for a freshman smoker and a committee appointed to make plans for the annual dance.

Democracy, an unknown quantity on the Harvard campus for many years, is about to be introduced on that campus, if efforts being made by President Lowell and the other administrators are successful. The administration is seeking to bring an end to the exclusive cliques at Harvard, and to have the undergraduates of all classes and degrees of wealth mix more freely.

Largest Colleges And Universities Show Enrolments

First In Number Of Students Is Columbia; California A Close Second

Leading all other colleges and universities of the United States in size of enrollment of regular full time students comes California, with 17,322 attending. Second by about 2,300 is Columbia; but the latter stands above all in the total number of students. Harvard is ninth in the amount of regular men.

The five largest liberal arts enrolments are: University of California (at Berkeley and at Los Angeles), New York University, Minnesota, and Michigan.

Among the co-educational universities the five largest are: California, Wisconsin, Minnesota, Illinois, and Michigan. But the five exclusively women's colleges whose enrolments lead the rest are: Hunter, Smith, North Carolina College for Women, the Florida State College for Women and Wellesley.

Institute is Second Largest of Kind Technology comes second among the technical institutions of the country with 2,564 students enrolled. Purdue is the college that leads the Institute in this respect: 2,775 attend it. The next three in order are: Minnesota, Illinois and Cincinnati.

Leading the medical schools of the United States are: Northwestern, Pennsylvania, Minnesota, Illinois and Michigan.

Harvard places seventh in this list, although it is first among the law schools, having an enrolment of 1,597. Largest of the non-professional graduate schools are: Columbia, California, Chicago, Pittsburgh, and Wisconsin. Northwestern has by far the largest dental college.

The Teachers College of Columbia still has the greatest number of students among schools of its type. Having increased its enrolment by thirty over last year, the Yale Divinity School now has 258 members. Largest of the forestry colleges is that at Syracuse; largest of those containing courses in journalism is the University of Missouri; largest of all in music is Northwestern; and the largest in pharmacy is Illinois.

Summer sessions of the following five were the largest in 1930: Columbia, California, Minnesota, Chicago and Wisconsin.

HOLIDAY OUTING AT THE ARK IS PLANNED

Signups for an outing at The Ark, Jaffrey, N. H., during the coming midyear holidays, have been opened by the T. C. A. The outing will be from January 31 to February 3, and will give those participating in it an opportunity to get in some winter sports.

It is expected that the total cost per man will not exceed twenty dollars. A cottage has been reserved, in which the men will sleep and meals will be served in the main building. Signups should be made in the T. C. A. office, as soon as possible.

Course XVI Sophomore Summer Shop Work Is Revised in Full By Faculty

Prize Winning Poster For Show Production



Drawn by Thomas L. Hansen G.

INSTITUTE SITE WAS ONCE UNDER WATER

(Continued from Page One)

have regular fights with sling shots and stones, the way David slew the Philistine; but the police finally stopped it when the damage became excessive.

"Starting about where the Simplex Electric Co. is now, and running up to the vicinity of the Cottage Farm bridge, there was a large pond of stagnant water, which froze in the winter. We used to use it for skating, and the old gang fights were continued in the form of shinny.

Seawall Built

At that time, there was a good ten feet of water over where we are now. About fifty years ago, a wall was built where the present one is; the river was dammed below and above, and a large suction dredge sucked the sludge at the river bottom over the wall. When the old river bottom was reached, the dredge started throwing up oyster shells four inches long; some of these were turned up when the Institute was built.

"The sludge which was pumped over the wall was mainly sewage from Boston and Cambridge; the odor of hydrogen sulphide is still noticeable when an excavation is made. When the Guggenheim Aeronautical building was put up, Gow piles were used. Workmen had to go down in the piles, and air had to be blown down to them to prevent them being overcome by the gas."

Old Creek Under Institute

An inspection of the basic plans of the Institute site shows that, in past Geologic time, a creek ran under the Institute from the northwest to the southeast corner. Its course is marked by a bed of sand and gravel from two to twenty feet thick, and it is upon this that some of the buildings are supported.

As this gravel bed does not run under Building Ten, considerable difficulty was experienced in getting foundations for the Dome. It was necessary to sink piles through the old sewer outlet to solid ground underneath. No rock is encountered, however, until one goes down some hundred feet.

Top Soil From Wellesley

Top soil, covering the river sludge, was brought from a hill out in Wellesley that was being dismantled. This layer, however, was only about a foot thick. The present top layer was made when the Institute was built, and covers about four feet of building rubbish. This explains the miscellaneous junk revealed by the shovel.

No serious trouble has been experienced through the settling of the Institute buildings. Although the settling was considerable the first year after construction, it soon stopped, and there have been no ill effects.

DUKE UNIVERSITY SCHOOL OF MEDICINE Durham, N. C.

On October 1, 1931, carefully selected first and third year students will be admitted. Applications may be sent at any time and will be considered in the order of receipt. Catalogues and application forms may be obtained from the Dean.

Study To Be Divided Between Building Shop Course and Plant Inspections

Following is a general outline of the method of instruction and content of the revised Course XVI summer course which will supplant the usual shop work subjects heretofore taken previous to the Junior year, as approved at the last faculty meeting, to take effect this June.

First Course

The first course is essentially a shop course in building airplane parts. This will be conducted in Building 33 where there is on hand equipment for fabricating small airplanes or gliders. This work will cover a period of six weeks for four hours a day. Each day will be normally started by a short lecture and followed by actual work by the students who will be divided up into small groups which will be rotated so that each student will have a chance to try his hand at all the different processes which go into the building of a modern airplane.

These processes consist largely of welding, sheet metal work, wood-working, wing covering, doping, etc. There is very little machine tool work connected with building an airplane. The object of this course is to give the student a familiarity with detail construction of airplanes and gliders and to stimulate his interest and enthusiasm by actual contact with such construction. It is expected that the students will practically complete a glider which they can use for short flights later on in the summer if they so desire, although this will not be a regular part of the course.

Second Course

The second course consists of a study of production methods by means of visits to factories in Cambridge and the vicinity plus a week's visit to the shops of the United Aircraft and Transport Company in Hartford, Connecticut. These shop visits are not to be in any sense sight-seeing tours but for every visit each student will be supplied with specific instructions to study some particular machine or process and to write a detailed report thereon. The range of processes covered will be very broad and will include all the usual manufacturing processes but with a special emphasis on those processes which are particularly important in the production of aircraft.

The revisions in the summer course have been under consideration for two years and come as a result of the most careful study and discussion in frequent staff meetings during that period.

The purpose of these changes, according to a member of the course XVI faculty is: "1. To more closely co-ordinate the summer work with the students' professional studies. 2. To stimulate the students' interest and enjoyment of their professional work by giving them actual manual contact with aircraft, including an opportunity to take part in the building of a small aircraft or glider. 3. To give the students a more comprehensive view of the actual manufacturing methods than they can get by the present shop work at the Institute."

A man is known by the company he keeps buying drinks for.

Freshman Record In The 440 Yd. A Hard One To Beat

Many Promising Freshmen Making Good Times In This Event

Freshmen in this year's P. T. competition will find that the 440 yard dash record will be hard to beat. The freshman record is 50 3-5 seconds, set in 1920 by A. D. Smith. This mark is a very excellent one, and it will probably stand for many years to come.

Last year in the competition 51 men competed in the 440, and the average time was slightly over 62 seconds. G. McKay, who is a Varsity candidate this year, made the best time of 54 4-5 seconds. At the other end of the list is the time 72 seconds. However, even this poor time will score points, for 17 points are allowed for the mark. The best men in this event last year were Walsh, McKay, Kinraide, Kessler, Dworzecki and Burdick.

Many Promising Frosh

There are many promising freshmen this year who will break 55 seconds. Among the leaders are Halladay, Wrigley, Emmett, Bell, Schwarz, Hopkins, Hall, Allen, Ball, and Burwell. With such a wealth of material Oscar should have a strong mile relay team.

The points which may be won are as follows: 50:3 sec., 100 pts.; 51:0 sec., 98 pts.; 52:0 sec., 93 pts.; 53:0 sec., 88 pts.; 54:0 sec., 83 pts.; 55:0 sec., 78 pts.; 56:0 sec., 73 pts.; 57:0 sec., 68 pts.; 58:0 sec., 63 pts.; 59:0 sec., 58 pts.; 60:0 sec., 53 pts.; 61:0 sec., 48 pts.; 62:0 sec., 43 pts.; 63:0 sec., 38 pts.; 64:0 sec., 33 pts.; 65:0 sec., 28 pts.; 66:0 sec., 23 pts.; 70:0 sec., 19 pts.; 75:0 sec., 14 pts.; 80:0 sec., 9 pts.; 85:0 sec., 4 pts.; 88:0 sec., 1 pt.

All men students at the University of Southern California must wear a white shirt and a rooters hat in order to be admitted to football contests.

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