

# ATHLETES' VIGOR IS DETERMINED

Trained Men Can Work More Easily Than Untrained

YALE SPONSORS TESTS

Each Rower Uses One-half Horse Power in Race

(By Science Service)

New Haven, Conn., Jan. 17.—“Strong as a horse,” spoken admiringly of a mighty athlete, is not so great an exaggeration as it sounds. Exact studies of the physical exertion put forth by the members of the famous Yale crew of 1924 by Drs. Yandell Henderson and Howard W. Haggard of the department of applied physiology at Yale, show that each man developed, during the period of a race, about one-half horsepower.

Three Methods Used

Determinations of energy expended were obtained in various ways. The men were exercised individually on rowing machines with power meters attached; the ratio of oxygen taken in to carbon dioxide given off in breathing was determined; the racing shell they used was towed by a power boat with a spring balance set into the towline.

“The data from these three methods were in general in fair agreement,” says Dr. Henderson. “They indicate that the maximal exerted is from .45 to .55 horse power per man, or expressed in the heat equivalent, 4.8 to 5.9 calories per minute, with a total energy expenditure of 19 to 29 calories per minute, or 13 to 20 times the basal rate.”

Athletes Not Overworked

It was noted that these athletes did not puff and blow noticeably, however great their exertion; this is in marked contrast with the distress of untrained or half-trained men. The amount of oxygen they took in through their lungs reached about the limit of the carrying power of heart and blood; yet it was not sufficient to replace the amount burned up during the race. As Dr. Henderson expressed it, “He draws heavily on his credit and incurs oxygen deficits; these deficits are repaid by the high rate of oxygen for a time after the work is ended.”

# DR. CROCKATT WRITES ARTICLE ABOUT ROADS

“How Traffic Has Been Shown Sufficient to Support New and Necessary Features in Oregon's Rail Transportation Facilities,” an article by Dr. Peter C. Crockatt, of the economics department, appeared in the December issue of “The Commonwealth Review of the University of Oregon.” As this article is of importance and interest to Oregon students it might be well to consider a few of the facts Dr. Crockatt stresses.

In general, the plan calls for the construction by the Union Pacific of a line from Bend to connect with the Natron cut-off near Odell, and from there southeasterly to Lakeview. Also, a line is planned in a westward direction across the state from a point near the end of the present Crane extension to the built by the Union Pacific, to connect with the Natron cut-off at Odell.

The article states that, “As Chairman Corey of the public service commission of Oregon, the man who is responsible for the insistent pushing of the proceedings culminating in these favorable reports by examiners, stated: ‘Approximately 33,000 square miles of territory in central and eastern Oregon will receive railroad transportation facilities where no transportation by rail existed before.’”

As Dr. Crockatt brings out in the article, this case in which the public service commission of Oregon is the plaintiff and the railway is the defendant, is the first one of its kind where railways on the face of things do not want to build, invoking the power given the interstate commerce commission under the transportation act of 1920 to require extensions of existing systems where the public convenience and necessity is paramount.

**ARIZONA BACHELOR CLUB INCREASES MEMBERSHIP**  
University of Arizona.—The Bachelor club at the University of Arizona has increased its number to 259 members. As a punishment for “queening,” a member of the club will be forced to wear a Mother Hubbard on the campus for a day.

# Girls Seek Inspiration For Senior Thesis

Two Co-eds Take Charge of Dancers For Study

To study the effect of educational dancing on the posture of college girls, two of the seniors in the department of physical education for women are working on this problem, for a senior thesis.

Educational dancing was introduced into the University of Oregon by Miss Lillian Stupp, member of the staff of the physical education department, when she came two years ago. It is used quite extensively, and was originated at the University of Wisconsin.

To Correct Faults

The two seniors, Laverna Spitzberger and Neva Service, after experience with the dancing themselves, have taken a class composed of college women who were put into the corrective department due to different postural defects, and are working to correct these defects.

First of all the schematograph, an instrument whereby the individual's posture may be traced on a piece of paper as she stands in front of it, casting the form on a glass plate is used. This picture is made when the person enters the class and is filed away to keep on record with the others that will be made as time goes on, and the difference in posture may be noted. At present only one or two of these have been made, but they will be compared with those made at a later date, and improvement is being expected.

Work Continuous

The work extends throughout the entire school year, and the same class is worked with all the time. The class is acquainted with the facts or the objects of the experiment, and what is being aimed for. For this reason their co-operation is available, and therefore more is being accomplished, according to the girls in charge of the class.

Miss Service and Miss Spitzberger intend to note individual cases, as well as the class as a whole, and draw any conclusions they can, and will organize the results into the senior thesis. It is hoped by the department, that some very definite results will be noted, and an increased interest in educational dancing will manifest itself, especially among the University women who are anxious to correct the faulty posture which they have.

This type of corrective work is under the direct supervision of Miss Harriet Thomson, head of that part of the physical education work for women and is one of the more interesting phases of the corrective program.

# FRANK JUE WILL SING IN CONCERT AT SALEM

Frank Jue, who is an advanced student in the school of music, will give a sacred concert in the First Christian church at Salem on Sunday morning and evening.

He will also appear in a concert at The Dalles high school auditorium Thursday evening of the same week. The program will include a duet with Henry Karpenstein, a graduate of the University of Oregon, who is teaching in The Dalles. The duet will be “Solemn Questora” from the opera La Forza del Destino. A third concert in which he will appear will be at Tillamook, February 19.

Jue, who is studying under John Seifert, sang at the Heilig theatre during the past week.

# STEAM CONNECTIONS MADE IN NEW SCIENCE BUILDING

The steam line connection with the new science building is being made today, states H. M. Fisher, superintendent of grounds. This will necessitate cutting off the steam this afternoon from the library, Oregon, and commerce buildings which are on this steam line. It is hoped the work will be completed so heat can be turned back into these three buildings by Sunday morning, said Mr. Fisher, and by heating them well this morning, it is thought the buildings will not become uncomfortable in the meantime with the weather conditions mild.

# RULES FOR SPORTSMANSHIP DISTRIBUTED BY COLLEGE

Ohio State University.—Ohio State university will distribute 7,000 handbills, on which are printed five rules for better sportsmanship at basketball games, at their next game. These rules are on courtesy, fairness, hissing, smoking, and the right of the coach to do the coaching.

# CHI SUNG PIL WRITES LETTER FROM HAWAII

Former Baseball Favorite Is With Y. M. C. A.

“Honolulu is certainly a beautiful place! I am so glad that I am once more in my beautiful Hawaii,” writes Chi Sung Pil, ‘25, who left the campus last term to accept a position in the physical department of the Honolulu Y. M. C. A., in a letter to Mother Donnelly of the campus hut.

“Please send me the scandal sheet and turn in my subscription to the Emerald,” he continues after telling of his great satisfaction with his new duties and environments.

Besides his duties at the Y. M. C. A., he is doing correspondence for two local papers, and speaking before churches and schools, Pil states in his letter.

“I have already written a news article for a local paper in regard to inviting the Oregon football team here for holiday games,” he concludes.

Pil was prominent in athletics while on the campus. He played on last year's baseball team. He sends his greetings to his campus friends.

# PRINCETON OFFERS PRIZE FOR CROSS-WORD PUZZLE

Princeton University.—Crossword puzzles have won a place in the work of the students here. A number of the faculty in the department of psychology have offered a prize to the student who will make puzzles that can have two solutions. The department of English will use them in examinations if they are sufficiently difficult.

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New York University.—According to an announcement of the authorities of New York University the enrollment of that institution is nearly 20,000 or greater than the total enrollments of Harvard, Yale, Princeton, Dartmouth, and Trinity.

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