

ARCHED BRIDGES PROBLEM SOLVED

Prof. McAlister Shortens
Design Work

RESULTS TO BE GIVEN

A research problem to shorten computation in the design of arched bridges has been nearly completed by E. H. McAlister, professor of architecture and mechanics, and will be ready for publication late this term or early in the summer. The work has occupied his leisure time for the better part of three years. For two years he had the assistance of Howard Wise, graduate student, now at the California Institute of Technology doing research. Wise worked 18 hours a week computing necessary mathematical tables.

Work to be Published

The charts are nearly completed, and Percy P. Adams, professor of architecture, is making the diagram drawings. A research committee in the University has provided funds to have the drawings made, and the account of the research will be published by the University Press as a faculty bulletin.

The exact title of the pamphlet has not yet been determined, but it will probably be "Elastic Arches," or something of the sort, Professor McAlister says.

Old Process Replaced

"The materials are treated as elastic solids," Professor McAlister explained. "The formation and stresses are worked out on that basis. The problem is to determine just how the deformation takes place, though it may not be visible to the eye."

The new process will replace the computation by the "process of summation," as the present long arithmetical calculation is called. It will reduce the computation to approximately one-fourth of the time required formerly in the design of arches, and in that way will be of benefit both to architects and engineers.

Tables Are Compiled

The most laborious part of the work was the making of a series of 30 tables, which will be reduced to about a dozen. By these tables differential equations have been integrated which were formerly in a very complex state. Formulae could then be made. Like logarithms the tables thus compiled will be good for all time. The line drawings of diagrams will illustrate the application of the mathematical forms to actual construction work.

The intricacy and awkwardness of the old system was brought to Professor McAlister's attention when the engineering school was a part of the University, and he taught the design of arches. He still teaches several structural design courses.

UNIVERSITY MOTHERS TO BE GUESTS AT TEA

A musicale and tea will be given in Alumni hall Saturday afternoon from 4 to 6 under the auspices of Women's league for all students and their mothers who are spending the weekend on the campus. The tea will be informal, according to Gladys Keeney who has charge of the affair, and will be given for the purpose of entertaining the mothers.

The chairman of the various committees are: Food, Lucille Douglas; serving, Katherine Slade; kitchen, Margaret Boyer; tea room, May Agile Barr; and music, Ruth Senenich.

CLASSIFIED ADS

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Wanted—1,000 students to breakfast at the Anchorage from 7-11:30 a. m. A-30

If the Pension—Who borrowed a hat at the rally, Saturday night, will call 1391, nothing further will be said. A-30

IMOGENE LETCHER'S COMEDY FASCINATING

Composer of "Captain Jacqueline" Here
for Finel Practices of Skit

Featuring the Junior Vod-vil, the main event of the weekend, is the sparkling, new musical comedy, "Captain Jacqueline," written by Imogene Letcher. Five new songs are included in the one-act skit which is the main event upon the evening's program.



Imogene Letcher

"The music is even more fascinating than the songs of Miss Letcher's last year's hit, 'Mummy Mine,'" are the words of Dave Swanson, Vod-vil director. From all word of the coaches, direction is coming along well, and rehearsals are being held every evening this week.

The scene of the skit is laid in the gardens of the Hotel del Rio, Palm Beach, Florida. The interest in the plot centers about the mystery as to the identity of a stowaway upon the ship, Rose Maiden. The cast consists of guests at the hotel, passengers of the Rose Maiden, which is anchored for a day, and sailors from the ship.

The dialogue is clever and the music is new and snappy, being one of the chief attractions of the play. The solos are said to be exceptionally good, and the audience is promised some clever chorus work. The musical synopsis is "It's Good to Be on Land Again," "Jacqueline's Song," "Song Sweethearts," and "I'm in Love with a Navy Blue," "Song of Spain," and the finale, "I'm in Love with a Navy Blue."

Imogene Letcher is on the campus over the weekend to help with the last few rehearsals. The cast of characters is as follows:

Captain Hope of the Rose
Maiden Hugh Walton
Harry Delahunt Jack Day
Jane Porter ... Katherine Jane Seal
Helen Grant Gladys Noren

PRE-MEDICS STUDENTS SEND IN APPLICATIONS

Advanced Work to be Taken
in Next Two Years

A number of students of pre-medics, now taking work in the University, have sent in applications to the registrar of the University asking to have their transcripts and credits forwarded to the University of Oregon Medical school in Portland. The students, both seniors and juniors, intend to take advanced work in the various departments of the medical school in the next two years.

The credits are forwarded to the advisory board at the medical school and pass through a board of examiners who determine if the student has sufficient standing and foundation for higher experimentation in the various subjects. Those who have already made known their intention to enter the medical school are: Thomas N. Page, Archie O. Pittman, Herbert Goldsmith, Victor Campbell, A. C. Joslyn, J. V. Straunford, John J. Eberhart, Alva Adkisson, Edwin D. Warren, John C. Findlater, Everett Jones, Wistar Rosenberg, Reese Wingard, Henry Wiswall, Harold Karo, William Bittner, William McBride, Harold Chapman, Cecil F. Fugher, George Horsfall, Ralph Huff Crandall, Joseph Benson, Calvin Yorlan, H. Lewis Greene, Raymond Saunders and Charles Chick.

MEIJI TEAM GUESTS OF COSMOPOLITANS

The members of the University of Meiji baseball team who were on the campus Saturday to meet the varsity, were the guests of the Cosmopolitan club Saturday evening at dinner in the Campa Shop. Nearly fifty-five people were present, including several members of the Oregon baseball team.

Bert Raynor, president of the club, was toastmaster. Dr. Warren D. Smith spoke representing America, C. S. Pil for Korea, Felipe Gamboa for Hawaii, and Ted Kurashige, Japan.

An interesting sidelight was brought out by one of the visiting players who told the members of the club that the word Eugene, when pronounced with the accent on the first syllable, meant "friendship" in the Japanese language.

EXTEMPORE SPEAKING CLASS TO BANQUET

Orators Will Pour Forth
Flood of Rhetoric

The students of Paul Patterson's extempore speaking class have decided that an after dinner speech is never so good as when delivered at the banquet table. As a result they are going to hold a banquet Thursday night at which the 21 orators will pour forth their oratory and a deluge of rich humor such as the College Side Inn has never before heard. The speeches represent a class assignment with the orator added to furnish realism.

The toastmasters are Frank Carter and Russell Lawrence and these boys are expected to furnish much amusement with their sparkling humor which is known all over the campus.

VARIED PROGRAM GIVEN IN JOINT CLUB CONCERT

(Continued from page one)

Members of the chorus are Catherine Henderson, Catherine DeNeffe, Frances Cornell, Frances Heyburn, DeLoris Pearson, Dorothy Poill, Mary Brant, Phoebe Louise Wright, Alice Aldrich, Helen Ball, Camille Burton, Peggy Spencer, Maurine Buchanan, Anna McCabe, Mildred Marsh, Judy Heffelfinger, Frances Morgan, Lyle Janz, Lyle Palmer, Rex DeLong, John Piper, Arnold Southwell, Maurice Warnock, Bob Gardner, Warren Ulrich, Pat Irelan, Jack Seabrook, Allen Smith, Ted Larsen, Eddie Edlund, Doug Farrell, Arthur Gray, George Schaifer and Otto Mauthe.

The W. S. C. Glee club sang "The Vagabond" by Speaks, a difficult song, but beautifully sung. They also closed the program by singing some popular songs with lots of "pép" and the stirring W. S. C. fight song.

The solos on the program were excellent. Each soloist had a fine voice and sang well. Harry Isaacs, bass, sang "The Harbor Bell" by Martin. Mr. Isaacs has a strong and pleasing voice. Fred Marshall sang Gilmore's "Day by Day." Mr. Marshall has the sort of personality that makes an audience laugh when he steps on the stage, and he had a delightfully smooth voice as well. One of his encores, "You Tell Her I Stutter," was cleverly sung. Roy Bryson sang a group. Mr. Bryson's voice is beautifully soft and smooth and is growing in power and resonance.

The skit, "The Shooting of Dan McGrew," was cleverly arranged. Unquestionably, "Dum" Marshall as the "lady that's known as Lou" was the star.

DON WOODWARD OUT FOR EMERALD EDITOR

(Continued from page one)

Woodward's rapid rise up through the Emerald staff gives him a nearly sure hold on next

year's editorship. As managing editor of the Emerald, he has become well known in journalistic circles and was recently elected president of Sigma Delta Chi, national journalistic fraternity. He also heads the junior class and has served as sophomore man on the student council. Apparently, there is no one who will oppose him in the coming ballot.

Metcalf is experienced in campus affairs through his position as junior man on the student council and through being president of his class in his freshman year. Committee work of various kinds, including canoe fete chairman, is included in his activities. His fraternity is Phi Sigma Pi.

Frances Simpson, who is out for Oregon editorship, has a long list of activities to her credit and is recognized as a strong contender for the place. As a daily news editor of the Emerald, she has formed many campus contacts, and as editor of the honor organizations and campus sections of the 1924 Oregon, she has had real training for the position she is after. In 1923 she was assistant on the forensics staff of the Oregon. As a varsity debater, she has also become well known and is president of Zeta Kappa Psi. She is a member of the Pro and Con discussion group, and of Eutaxian literary society, and is a member of the Order of Debate "O." Her sorority is Delta Omega.

Junior Woman Up

Martha Shull, student council aspirant, also received much of her student body activities training in journalism. She was a member of the Oregon staff in 1922-'23 and of the Emerald staff in 1921-'22. She attained some prominence this year as a member of the committee which entertained the high school editors and presidents. Committee work has always taken a share of her time, and in addition, she is an honor student scholastically. She is a member of Kappa Alpha Theta.

Miss Spitzberger, who is also running for the student council, has also been active on the campus in committee work and is a member of Alpha Omicron Pi.

Student body nominations take place tomorrow. A large group of candidates are expected to announce themselves today, as there are a large number of offices untested as yet.

MRS. MABEL MCCLAIN ILL AT HOME WITH LA GRIPPE

Mrs. Mabel E. McClain, circulation librarian, has been confined to

Rose LaVogue Beauty Shop
Shampooing, marcelling,
scalp treatments and hair
goods made to order.

"Mac" "Jack"
Varsity Barber Shop
The Old Reliables
11th and Alder

her home for the past few days with la grippe and is not expected to be able to return to work for several days.

OREGON TIES HUSKIES WITH 11 TO 11 SCORE

(Continued from page one)

The contest will be played here Friday.

The box score:

Washington	AB.	R.	H.	E.
Malone, ss	3	1	1	0
Langlie, 2b	3	1	1	1
Lewis, m	4	1	1	0
Frayne, lf	4	1	3	1
Beckett, 1b	2	1	1	1
Matlock, rf	3	1	1	0
Jackson, 3b	3	2	0	1
Boyd, c	2	1	1	0
McDonald, p	0	0	0	0
Tesreau, p	3	2	0	1

Totals 27 11 9 5

Oregon	AB.	R.	H.	E.
Sorsby, m	3	3	2	0
King, rf	4	1	1	0
Ross, 2b	3	1	2	1
Hobson, 3b	2	1	1	0
Latham, p	4	0	1	1
Cook, lb	0	1	0	1
Bittner, ss	3	2	1	0
Ringle, lf	3	0	0	1
Bliss, c	3	2	1	0

Totals 25 11 9 4

Summary: Home runs, Bliss, Bittner; three-base hits, Hobson, Beckett; two-base hits, Frayne, Matlock. Struck out, by Tesreau 5, by Latham 5. Base on balls, off McDonald 1, off Tesreau 4, off Latham 4. Hit by pitcher, Cook by McDonald, Bittner, Ross by Tesreau; Beckett, Boyd by Latham. Sacrifice hits, Hobson. Umpire, Carl King.



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BLUES"
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