

THE UNIVERSITY ARGONAUT

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THREE INVENTIONS BY METALLURGIS AT IDAHO WILL REVOLUTIONIZE MINING AND BRING HIM WORLD-WIDE EMINENCE

A. W. Fahrenwald, U. S. Bureau of Mines, Wins International Prominence by Developing Classifier for Ores, Centrifugal Flotation Machine and New Concentrator

Revolutionizing the mining world with three of his recent inventions, A. W. Fahrenwald, U. S. Bureau of Mines metallurgist associated with the university school of mines, has won international distinction and recognition with his developments.

Patents have recently been obtained on two of these machines and a patent on the third is pending. Mr. Fahrenwald's developments include C. D. Classifier for ores, a Centrifugal Flotation machine and a new concentrator which is as yet uncompleted.

The C. D. Classifier was developed by Mr. Fahrenwald in conjunction with the Bunker Hill Mining company and since its inauguration is continuing to increase in its scope of usefulness. The latest application of this type of classifier is in closed circuit grinding for flotation. An indication of the wide-spread recognition of this machine is the fact that the Canadian government department of mines has recently purchased two laboratory testing C. D. Classifiers. A single cell commercial size of the Fahrenwald flotation machine will be in exhibition in the School of Mines

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SENIOR MINERS PLAN FIELD TRIP

Twelve Men Will Tour the Mines of Northern Idaho and Montana

Twelve graduating seniors of the School of Mines will leave Moscow Friday, May 8 on the annual mining trip through northern Idaho and Montana, according to an announcement today by Dean F. A. Thomson, who with Prof. V. R. D. Kirkham will accompany the students.

Those making the trip are G. V. Larsen, A. B. Bagdasarian, C. Lokken, Fritz McGonigle, A. J. Wahl, E. Joyce, J. D. Pullock, C. Saunders, A. Pena and E. A. Eastman.

Leaving Moscow early in the morning the miners will have luncheon with the A. I. M. E. and A. S. C. E. at the Davenport hotel Friday noon. They will leave Spokane for Wallace Friday afternoon.

Will Visit Hecla

The Hecla mine, underground and the Hecla surface plant will be visited Saturday morning and on Sunday the men will motor to Murray to visit the dredge of the Yukon Gold company.

Monday morning will find the students in Kellogg where the Bunker Hill and Sullivan properties will be visited. Wednesday the party will leave Wallace for Butte, Montana, where underground and surface plants will be inspected. Thursday evening the party will move to Anaconda and Friday will be spent in In-

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TODAY'S PROGRAM

12 o'clock, noon—Arrival of the Associated Engineers from Spokane and northern Idaho.

12:30—Luncheon at the Blue Bucket Inn; talks by Frank M. Smith of the Bunker Hill Mining company and president of the Associated Engineers of Spokane. Ruth White of the Associated Engineers, Dean Ivan C. Crawford of the College of Engineering, Dean F. A. Thomson of the School of Mines, Dean M. F. Angell of the College of Letters and Science and physics department and Dean Miller of the School of Forestry.

2 p. m.—Tour of the campus by the visiting engineers and students and faculty of the engineering schools; inspection of various exhibits and displays of the engineering, forestry and architectural schools and departments.

7:30 p. m.—"Open house" to the student body at large and Moscow townspeople.

Exhibits will be held in the Science hall, Geology building, "U" hut, Metallurgical building, Administration building and Engineering building.

VISITORS TO GET FINE GOLD BRICKS

"Get your gold brick!" Visitors at the School of Mines exhibit in the metallurgical building this afternoon and evening will be presented with miniature "gold brick" paper-weights, inscribed with "The Idaho Mines" and manufactured by students metallurgists. Ancient and modern alchemists will have to look to their laurels, assert metallurgical lab workers, who claim all honors for producing synthetic gold.

VANDALS TO MEET MISSIONARIES IN CONFERENCE EVENT

Whitman Doped to Have Strong Crowd; Fast Idaho Men Billed to Enter Saturday Contest

The Vandals will meet the Whitman college Missionaries Saturday afternoon at 2 o'clock on MacLean field in the second conference meet of the season for the Vandals. Although the weather man promises havoc for the day, the past week has been dry and clear and if it doesn't storm, the track will be in excellent condition for the meet.

With the exception of Hank Powers, sprinter, who is out with a sprained ankle, the Vandal cinder track and field men are in perfect condition and should make some record performances. The specific abilities of the Missionaries is an unknown quantity in this section, but word comes from Walla Walla that the team has been favored with excellent weather thus far this spring and practice conditions have been ideal. The Missionaries usually turn out some fast material, so it is expected that the competition will be exceptionally keen.

Action Promised

Spectators will see several fast men in action at the meet. Williams, coast conference two-mile champion, who is running in top form, will be entered in the mile and the two-mile runs, according to a lineup announced last night by R. L. "Matty" Mathews, track coach. In the sprints, Davidson and J. Thompson have been entered, thus vouching for thrills in this division. Nedros, who took the pole

(Continued on page four)

SENIOR SNEAKERS TIRED BUT HAPPY

Class of '25 Returns at 2:30 Wednesday Morning After Exciting Day at Lakes

More than 195 University of Idaho seniors wearily climbed from the Spokane and Eastern four-car special train at the Moscow depot at 2:30 o'clock this morning at the end of a 22 hour day of excitement on which they held their annual "sneak". From the zero hour of leaving, in spite of junior classmen who made many attempts to delay the departure, at 4:30 Tuesday morning until the last minute of the big day, not a second was uninteresting or uneventful.

The special train arrived in Coeur d'Alene, the seniors' destination, about ten o'clock Tuesday morning. The train was met by a host of Coeur d'Alene citizens with cars, headed by George F. Weeks, secretary of the North Idaho chamber of commerce. Mr. Weeks was mainly responsible for the splendid arrangements which made every minute count in terms of pleasure for the seniors while they were in Coeur d'Alene.

Motor to Hayden Lake

Many cars took the students to Hayden lake and surrounding country for a ride, after which, on the steamer Flyer, with the dancing barge

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ELDRIDGE TO RETURN

Dean Eldridge, now in the southern part of the state in the interests of the University, will arrive back either Sunday or Monday of next week. Mr. Eldridge is speaking at the high schools around Twin Falls especially to the seniors spreading information regarding the university and the opportunities it offers to the high school graduate. He has also spoken at business clubs interested in their state university.

ENGINEERS ARE HOSTS TO FIFTY SPOKANE MEN

CHEM GARDENS RIVAL NATURE

Rivalling Nature in her production of beauty, chemical engineers will present "chemical gardens" as a feature of their exhibit on the second and third floors of the Engineering building. Ralph Mash, in charge of the committee, announces the following program and students in charge: Chemistry library, physical chemistry apparatus, special centrifuges and colorimeters—Ralph Mash and William Bitner.

Advanced quantitative laboratory, industrial displays, various chemical industries, assorted display of chemical apparatus, analytical equipment, chemical gardens—Don Dick and Raynard Lundquist.

Organic chemistry laboratory, distillation and condensation, steam, oil baths, retorts, stages in synthesis of organic compound, reaction, separation, purification, special amine nitrogen apparatus—George Dunn and Howard Keeler.

Sophomore laboratory, analytical and food chemistry, wet analysis of ores—Junius Larsen. Freshman laboratory, qualitative analysis—Charles Carney.

TWO NEW SCHOOLS ESTABLISHED HERE

Department of Business Ad. and Graduate Curriculum Are Promoted

Establishment of the graduate school and the school of business administration as new divisions of the university has been announced here as a result of action of the state board of education and board of regents at their meeting in Boise, April 25, in accordance with recommendations made by the executive committee of the university.

Dr. J. E. Wodsedalek, director of graduate study, becomes dean of the graduate school, and Prof. H. C. Dale, director of the business curriculum, becomes dean of the school of business administration. The change takes effect July 1.

With this change in organization the university will consist of nine distinct schools and colleges, which have grown one by one from the original college of letters and science as the needs and resources of the state made it necessary and possible, as contemplated in the enabling act by which the university was created. The list will include the college of letters and science, college of agriculture, college of engineering, college of law, school of mines, school of forestry, school of education, school of business administration, and graduate school.

Instruction in business is now being administered as a "curriculum"

(Continued on page two)

JUICE BUGS TO STAGE MARVELS

Modern wonders of science, equal in weirdity to those of the ancient Aladdin's lamp, will be unfolded to spectators at the All Engineers' fair today by the department of electrical engineers. Chief among the exhibits will be an instrument which the engineers claim will defy gravity. The demonstrations will be given in the engineering building.

Demonstration of modern electrical apparatus, including a type of lighting machine, used by ingenious movie directors to enhance their storm pictures; strength testers, transmissions, starter boxes and domestic appliances, have been included in this portion of the program.

The following subjects will be demonstrated by the following students: Strength tester, Brown; meters, Brewink; batteries, Roberts; Electroplating, Morris; revising motor experiments, Berger; transformers, Hutten; motors, Telberg; starting boxes, R. Morris; telephones, Curtis; domestic appliances, Soderberg; Tesla coil, Beam; radio, K. Jones; oscillograph, Foskett.

FORESTERS AND ARCHITECTS COOPERATE FOR FIRST OPENHOUSE AND EXPOSITION

Scientific Students Sponsoring Exhibits Comprising "Everything Under the Sun" in Mechanical World—Precedent Set for Annual Industrial Show Day at Idaho

Today is Engineers' Day.

Swinging into action at 12:30 o'clock with a luncheon at the Blue Bucket honoring visiting professional engineers, geologists and mining men from all parts of the Inland Empire, student engineers and members of the engineering faculty are today hosts to the Associated Engineers of Spokane, the student body at large and townspeople of Moscow.

Heralded as the greatest student undertaking since the all-college pageant, "The Light on the Mountain," members of the three schools who are sponsoring the event have worked night and day for the past two months in a mighty co-operative effort to make their exposition and "show day" one of the outstanding events of the college year and to set a precedent for future years.

KIRKHAM DISCUSSES IDAHO'S OIL FIELDS

Says Chances Are Fifty-Fifty for Oil in the Gem State

Territory included in Bingham, Bonneville and Caribou counties may be rated as a prospective or unproved area insofar as the production of oil or gas is concerned, says a bulletin issued recently by the Idaho Bureau of Mines and Geology and written by Virgil R. D. Kirkham, geologist for the bureau. The country includes structures which deserve testing, in which the business risk is relatively high but where there are good speculative chances. The chances for loss as well as the amount of gain probably would be much greater here than those involved in drilling on similar structures in a proven field, the bulletin sets forth.

Possible investors in oil properties are warned by Dr. Francis A. Thomson, secretary of the bureau, in a preface to the bulletin, to consider the risk before investing their money. "Nothing could be of greater value to the state of Idaho at the present time than the discovery therein of areas capable of commercial accumulation of oil and gas, this end in likely areas are to be commended; nevertheless it is thought wise to point out that in most instances in a 'wildcat' area, no test well should be started without sufficient financial backing to go at least 2500 feet in depth. Neglect of this precaution in adjacent areas has led to the abandonment of wells before the structures have been adequately tested, resulting not only in total financial loss but also in undesirable and unjustified reflection on the area involved."

No Oil Seeps Noticed

The country lies within a "petro-

(Continued on Page Three)

NEAT DISPLAY BY CIVIL ENGINEERS

Demonstrations of blue printing, slide rule calculations and surveying instruments and display of mechanical drawings are included in the program of the Civil Engineering department. Gus Bjork is in charge of the committee which made arrangements and planned the exhibits. The program follows:

Surveying instruments—J. Buchanan and R. J. Weller. Road's Metal Testing laboratory—C. Sievers and Roy Otness.

Drawing display—Harold Dahman, Ike Carter and R. A. Higgs. Velocity Meter—G. H. Miller and F. C. Craig.

Oleson machine—N. Tertling, H. C. Billings and A. Anderson.

Slide Rule calculations—E. Hagan.

Blue printing—Louis Brossard and H. H. Jackson.

Concrete display—G. E. Bjork.

John Reed, as chairman of the committee on events and Roy Shoultis as general chairman of the day, have been in charge of arrangements and plans for the exposition. Committee men in charge of the exhibits of their respective schools are: Gus Bjork, civil engineering; Harrison Armstrong, electrical engineering; Paul Ballif, mechanical engineering; Ralph Mash, chemical engineering; Fritz McGonigle, mining engineer; H. Z. White, forestry; Walter Mooney, architectural; and Ivan Sokolikoff, physics.

From 12 o'clock, noon, until five o'clock this evening the University campus will be a mecca for the professional engineering talent of the northwest. As part of their annual pilgrimage into northern Idaho, the Associated Engineers of Spokane have accepted the invitation to be guests of the student engineers dur-

(Continued on page four.)

VANDAL NINE WILL MAKE COAST TOUR

Baseball Team Leaves Thursday on Six-game Trip; 15 Men Taken

Fifteen Vandal baseball men, accompanied by Coach David MacMillan, left Thursday morning for their annual tour of the Pacific coast conference, where a six-game schedule awaits them. They will meet the College of Puget Sound nine Friday on the first game of the series and the second game of the Vandals' conference participation this year. The schedule will be closed with a game with the Gonzaga Bulldogs at Spokane, May 7 and the Vandals will return home the following day. The following additional games will be played: University of Washington, at Seattle, Saturday, May 2; University of Oregon at Eugene, May 4; Oregon Agricultural college, at Corvallis, May 5; Whitman college at Walla Walla May 6.

The Vandals have taken one conference game and three practice tilts thus far this season. The opening conference contest was taken from Washington State College, 6-4, April

(continued on page three.)

GIRLS' SWIM CLASS AT NAT SATURDAY

The swimming class for women majoring in Physical Education will be resumed at the Williamson Natatorium Saturday morning, May 2, at eight o'clock. The regular fee for swimming will be changed, but there will be no charge for instruction. At 9:00 a. m. Saturday, Miss Andrews and Miss Wirt will demonstrate rescue and artificial respiration methods for a drowning person at the Nat. All physical education majors, as well as Miss Andrews' class in Home Nursing are urged to attend. Those who can swim prepare to go in the water in order to practice these rescue methods.

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One Big Day

Three of the University of Idaho's most prominent school and colleges are hosts today to more than fifty visiting guests, citizens of Moscow, and university students and faculty. Engineers' Day, being the first occasion of an extensive display of professional exhibits, was officially opened by a luncheon at noon today at the Blue Bucket Inn.

The college of engineering, and the schools of forestry and mining are combining to put the thing over, and ample evidence of their success is already apparent. Though the exhibits are professional in nature, they are so simply and clearly presented as to become interesting, to the point of fascination in some cases, to the average layman.

Besides other interested visitors, upwards of forty-five practicing engineers from the Inland Empire, representing Associated Engineers of Spokane, are on the Idaho campus to see the exhibits, to inspect the laboratories, and to study the methods and progress of the college of engineering. The time when the exhibits may be seen and the places where they will be displayed are announced elsewhere in The Argonaut.

Needless to say, many of the most recent of modern inventions and discoveries in the fields of engineering, mining, and architecture will be on exhibit today. A rare opportunity will be missed by those who fail to visit them.

Hail, Visitors!

Many visitors are here at Idaho today. They are on our campus, in our halls, and our houses; they will be watching eagerly our every action. They want to believe the best about Idaho and her students; and they will not be disappointed.

So welcome visitors, Spokane engineers and all others; may The Argonaut be among the sincerest to display to you all the friendly clasp, and to greet you with the famous old Idaho "Hello." You are assured of a pleasant stay on our campus and, we hope, a profitable one.

Organization

There are two extremes or types of thought concerning human organizations, the individualistic and socialistic. One demanding a maximum of individual independence and initiative, the other the maximum of aggregate or mass action. Civilizations begin in individualism and end in high social and professional organizations. The Associated Engineers Society was organized as a means of aiding its members to attain the higher standards that are made possible by cooperative group methods. The lectures, meetings, entertainments, and general business of such a society are all stepping stones which ought to be taken advantage of now. Don't put off the obligation that you owe to yourself and fellow associates by thinking you have not the time. Get the spirit of engineering which is the spirit of progress and service, and good will be the result of all your efforts.

The Sneak

Early Wednesday morning saw the conclusion of perhaps the most successful senior sneak in history. It was the longest one, and one of the most efficiently handled in years. And senior sneak day this year witnessed an encouraging tendency in the matter of the manner of conduct on the part of juniors and underclassmen.

Junior men are to be commended on the fine spirit they displayed, the sportsmanship, and the high regard for the uses of discretion. Seniors appreciate it; they've said so themselves; and the whole thing is a good reflection on the university.

A superfluity of "rough stuff" when the seniors prepare to embark on their ancient picnic is to be condemned. It gets nowhere, and leaves a decidedly bad taste in the mouths of all but a few successful participants. So it is encouraging that much of this is being done away with; that juniors are coming to place more emphasis upon their kingship of the campus while the seniors are away than upon keeping them from going.

The day will probably come when most of the hardships and sleepless nights endured by the sneaking seniors will be largely done away with. Meanwhile, power to you juniors next year; may you carry on in the paths you have indicated this spring.

WOODBURY TALK TUESDAY NIGHT

His intimate friendship with Emerson will be the subject of Charles J. Woodbury in a lecture to the English club at the University but next Tuesday night, it is announced by Club officials.

Reminiscences of Emerson's time and stereopticon illustrations are expected to be of much interest. The lecture has been changed materially since Mr. Woodbury was here two years ago. The entertainment is for English club members in good standing and each member is entitled to

bring a guest. A personal interest attaches itself to Mr. Woodbury, especially for the people of the Palouse country, because in the early days he was sent here by the New York Herald to write feature articles for the paper. This was apropos the extension of the Northern Pacific railroad. He traveled in a buggy.

MACHINES AT HEATING PLANT

The Mechanical Engineering department will have its exhibit in the heating plant building. It is announce-

ed by Paul Ballif, committeeman in charge. Visitors will enter by way of the road to the heating plant, entering the laboratory on the west end of the plant from the south. The program of exhibits and displays and the students in charge are as follows:

- O. & S. steam engine—F. L. Messina.
- Skinner Automator brake test—Victor Vang, I. E. Sles and C. Baker.
- Airplane motor—W. Childers and B. Bouse.
- Oil Guage tester—H. C. Carroll and G. Wartman.
- Orsat apparatus—Rawson.
- Acetylene torch—Sidney Little.
- Air compressor, boiler room and pump house—Eugene Beebe.

We put on those soft crepe rubber soles.—Friedman Shoe Shop.

H. S. STUDENTS COME TO IDAHO

Many prospective students for the University of Idaho from the Boise district high schools were reported by Dean I. C. Crawford of the engineering department who has spent the past two weeks speaking at the high schools of that district spreading information concerning the University and the opportunities it offers to the high school graduate. Mr. Crawford visited Weiser, Caldwell, Boise, Mountain Home, Nampa, Emmett, New Plymouth, Payette and Parma, paying particular attention to the seniors of the schools in explaining to them the different departments and schools of the University. In addition Dean Crawford spoke before the Exchange Club of Boise, the Associated Engineers Club of Boise, and the Business Men's Club of New Plymouth. He arrived home from his two weeks trip last Saturday.

THREE INVENTIONS WILL REVOLUTIONIZE MINING

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display today. Laboratory machines of this type are in use in the various government bureau of mines testing laboratories throughout the country and in the laboratories of such companies as the Bunker Hill and Sullivan Mining company and subsidiary companies of the Anaconda Copper Mining company and in various universities.

The commercial machine of this type is exceedingly simple. Operation requires less than one horse-power per standard 16 inch cell. The six cell unit handles easily from 50 to 75 tons every 24 hours while the operation and circulation of pulp is positive.

The new type of gravity concentrator being developed by Mr. Fahrenwald, which will be on display also is expected to have several times the capacity of present table concentrators. It requires a well-classified feed such as it is now possible to get by the use of the C. D. Classifier. Mr. Fahrenwald believes that fully a year's work will be required to completely develop the machine.

In addition to the recent inventions, a surface tension instrument developed several years ago by Mr. Fahrenwald in his flotation research study will be on display. This instrument is the only apparatus available that gives absolute readings and requires the use of no corrective factors. It

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is extensively used in research laboratories and in college and high school laboratories.

"Mr. Fahrenwald, who is ore dressing engineer for the U. S. Bureau of Mines and in charge of the Bureau's co-operative work at Idaho is rapidly coming to be recognized as one of the country's authorities in the field of ore dressing and Idaho is proud to claim him as one of her outstanding engineers, although strictly speaking he is neither a student, an alumnus nor a member of the faculty. Incidentally Mr. Fahrenwald has been tennis champion of the campus for two years and can still pitch a good game of baseball," said Dean F. Thomson, of the school of mines, in commenting on The Idaho engineer's achievements.

TWO NEW SCHOOLS ESTABLISHED HERE

(Continued from page one)

in business, as a part of the college of letters and science, under a plan instituted in 1922. At that time there were 120 students with business as their major subject. This year there are 293 students enrolled as candidates for the degree bachelor of science in business offered by this curriculum, which enrollment is larger than in any of the present professional schools or colleges of the university.

Graduate study at the university also has increased rapidly in importance in the last few years. In 1921 there were only 15 graduate students and only 2 master's degrees were granted; in 1922, 36 students, 8 degrees; 1923, 48 students, 15 degrees; 1924, 84 students, 16 degrees; 1925, 105 students, with 30 to 35 degrees to be granted.

Until last year supervision of this instruction was administered by a faculty committee of which Dr. Wodsedalek was chairman, and last year he was given the title, "director of graduate study."

Dr. Wodsedalek, who is head of the department of zoology and director of the pre-medical curriculum, has been a member of the university faculty

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since 1913. He holds his doctorate, as well as his bachelor and master's degrees, from the University of Wisconsin. Prof. Dale, who is head of the department of economics, has been a member of the faculty since 1920. He holds the bachelor of arts and master of arts degrees from Harvard. The development of business instruction at the university has taken place under his direction.

The Wedding

EVERYBODY WELCOME

There will be a wedding in this shop on Saturday morning. Miss High Quality will join with Mrs. Low Price. Miss Quality is the daughter of Good Judgment and Sturdy Reputation. Mr. Low Price is the son of Quality Purchases and Careful Buying. They will hold a reception immediately after the ceremony. You are cordially invited.

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Sigma Nu announces the initiation of Orval Chaney, Middleton; Joe Deiss, Twin Falls; Ronald Ellsworth, Jamestown, N. D.; Howard Hill, Stevensville, Montana; Richard King, Boise; Grover O'Donnell, Portland, Oregon; Walton Swim, Twin Falls; Wilfred Walmsley, Parma; and Hector Zaring, American Falls.

Mid-week dinner guests of Sigma Nu were the Messrs. Boyde, Cornellson and Fred Babcock, of Lewiston, Robert Quarles, and Edward Johnson.

Gamma Phi Beta dinner guests: E. Hillman, K. Edwards, K. McDowell, S. Coon, R. Erickson and D. Disney.

Mrs. Katherine Athey of Boise was a guest of Gamma Phi Beta Sunday.

Beta Chi dinner guests Tuesday evening; Misses Barbara Gamwell,

Frances Sullivan, Doris Squibb, Inez Azceuenaga, Lula Payne and Dorothy Oram.

Senator and Mrs. Chris Hagen of Moscow were dinner guests of Beta Theta Pi Thursday evening.

Dinner guests of Delta Chi Wednesday were: Mrs. Given, and Misses Lillian Groves, Mary Hibben, Edna Bryant, Lois Taylor, Gertrude Groefsema, Doris Estabrooks, Thelma Dawson and Margaret Barlogi.

Tau Kappa Iota announces the initiation of Dr. J. H. Burgess.

The Misses Muriel Crowe, Mary Hibben, Mildred Waters, and Mr. and Mrs. Carl Trowbridge were dinner guests of Tau Kappa Iota Tuesday evening.

IDAHO HAS THREE ENGINEER GROUPS

Sigma Tau, Associated Engineers, and A.I.E.E. Branch Form the Roll

The University of Idaho boasts of three engineering and scientific organizations which have taken an active part in arrangements for Engineers' day. The three groups are Sigma Tau, the Associated Engineers and the Idaho branch of the American Institute of Electrical Engineering.

Sigma Tau is the one honorary fraternity on the Idaho campus whose policy is to recognize the student engineer and to further the advancement of engineering education.

Each year Sigma Tau presents a medal to the sophomore, who in his freshman year attains the highest scholastic average. This year the award was made to Jess Buchanan.

Rho chapter of Sigma Tau was installed at Idaho in 1922 and is one of the most active honoraries on the campus.

The Associated Engineers of the University of Idaho is a society of the students of all departments of engineering. The aim of the organization is to provide for closer contact among student engineers and to afford opportunities for students to hear lectures of engineering science. This turners of prominence in the various organization also sponsors the Idaho Engineer, its official organ.

The American Institute of Electrical Engineering is a society organized by students in colleges and technical schools of recognized standing. The Idaho branch of the A. I. E. E. was organized November 6, 1924 with Harrison Armstrong of Moscow as president.

We put on those soft crepe rubber soles. —Friedman Shoe Shop.

STAGE SET FOR FRESHMAN GLEE

Frosh Hosts at Unique All-College Dance on Saturday Night

Preparations have been made for the final all-college dance of the year tomorrow evening when the Freshman class sponsors the annual Freshman Glee. Unique decorations, harmonious syncopated music, clever programs, a perfect floor, and a stellar program by imported entertainers, is the offering announced by "Kenny" Edwards, general chairman of the dance committee.

A feature entertainment program by the Washington State College varsity quartette is ranking with the dance numbers for the premier position in the evening's merrymaking. The W. S. C. quartette is rated as one of the best organizations of the kind in the northwest, and they have been playing and singing together for several seasons. They have been in big demand during the past winter and have filled numerous engagements at such places as The Garden, in Spokane, the Metranome, in Lewiston and other points in eastern Washington, northern Idaho and Montana.

Something unusual in decorations is announced by Adolph Emskamp, chairman of that committee, but he has refused to reveal their exact nature until the dance. His committee has been working for several weeks, and have been assisted by Claire Kil-

loran, of the sophomore class. The floor committee has been diligently working on a plan to smooth out the notorious waves of the old gymnasium floor, and they guarantee a crystal dancing surface.

A brisk ticket sale is reported by the committee, but a sufficient number will be withheld to meet the demands of all late-comers at the dance doors. A bevy of Freshman co-ed ticket sellers canvassed the halls of the Administration building today, and disposed of a large number of the pasteboards.

Due to the added entertainment features the dance program has been cut to 12 numbers, starting at 8:30 o'clock. Paul Beller and his orchestra of six campus synco-syncoaters are furnishing the music.

The patrons and patronesses chosen for the dance are: Dean Permeal French, Mr. and Mrs. V. R. D. Kirkham, and Mr. and Mrs. Randall Stewart.

TWENTY-TWO OUT WOMEN'S TENNIS

Tournament Over Saturday Morning and Then Compete in Challenge Play

The outlook for women's tennis is unusually good this year. Twenty-two girls have turned out which greatly exceeds the number of any year previous.

On the third round, the matches to play are: 1, Willy Moody vs. Rose Preuss; 2, Catherine von Valkenburg vs. Jane Gibbs; 3, Mildred Laney vs. Katherine Burgraph; 4, Mary Roe vs. Evangeline Bennett.

The semi-finals will be completed Friday evening; and the final game will be played on Saturday morning. Immediately after the finals, varsity standings will be put up on the challenge board. Any girl may challenge the girl ahead of her on the board, thereby attempting to bring up her own rating. The women's varsity team, which plays Whitman at Walla Walla Friday, May 8, will be decided by the three who stand highest on the challenge board Monday night. The following three days will be given over to intensive coaching of the team to represent Idaho. The closing of the challenge board on Monday night does not prevent any girl posted from trying to raise her varsity standing before the end of the school year.

The Shop of character and efficiency. The Idaho Barber Shop.

PLAN TO WIDEN PULLMAN-MOSCOW ROAD ON WASHINGTON END

According to a statement made by Pullman people, it is the intention of Whitman county to widen the highway between Pullman and the Idaho state line four feet, and to resurface portions of the road, the present season. The travel over the nine miles of road between the two college towns is heavy at all times of the year, and it is hoped that at some time the portion of the road on this side of the Washington line will be put in condition.

The Shop of character and efficiency. The Idaho Barber Shop.

KIRKHAM DISCUSSES IDAHO'S OIL FIELDS

(Continued from page one)

terous province" and the rocks were formed in "petroleumogenic epochs." Much of the area conforms to the factors and conditions considered essential to the commercial accumulation of oil and gas. However, no oil seeps or saturated

sands, were noted throughout the entire examination. This may or may not be construed as an unfavorable indication. Most of the area is underlain by formations at varying depths, accessible to the drill, which are correlated with productive oil and gas series in areas throughout the various fields of Wyoming, Montana, and other Rocky Mountain states.

The most likely structures for drilling are listed in the bulletin as follows: Black Mountain, Bald mountain, Little Elk mountain and Big Elk mountain. Each of these is a dome corresponding to the major topographic features necessary to the production of oil. They are very distinctive in structure and may be easily located by layman. Locations near the crests and on the upper flanks are the most advisable for testing.

VANDAL NINE WILL MAKE COAST TOUR

(Continued from page one)

25. The other two games were won from Lewis and Clark high school and the Fourth Infantry nine, Fort George Wright, Spokane. Of these contests, only the Cougar contest at Pullman was served to indicate the relative strength of the Vandal nine this year. The practice contests all were taken by large scores and the Idaho men had a comparatively easy time in disposing of the teams. The Washington State contest, however, was different, the Vandals opened strong and at the start of the least inning held a 6 to 0 score. In their closing frame the Cougars rallied and scored their four runs.

Erickson Going Good
Of the players developed in pre-season games, "Left" Erickson, lanky southpaw recruit twirler, is perhaps the most outstanding. Erickson, who played his first intercollegiate ball with the Idaho Technical Institute at Pocatello, did not appear in the games with Lewis and Clark high school, but opened with the Fourth Infantry game. In this contest the young hurler struck out 19 men. His strike out total for the Pullman contest reached 14 "Syb" Kleffner, former Vandal grid star, has started a slugging record already this season. Out of the four times at bat in the Washington State game "Syb" poled a home run, a three base and a two

base hit and fanned once. MacMillan probably will take a staff of three pitchers with him Thursday. These will be Erickson, Field and Golden. The latter two hold Idaho letters. MacMillan will choose the men who will accompany him from the following candidates: Erickson, Golden Field, pitchers; Howerton, catcher; Lehrbas, shortstop; Bill Landson, first base; Wahl and Wicks, second base; Cameron, Vesser and Kleffner, field; Lawson, third base and Greene, Beall and Terry, utility.

After the tour, the remainder of the Vandal schedule will be played at Moscow. It includes the following games: May 14, University of Washington; May 15, University of Montana; May 18, Washington State College; May 22, University of Oregon; May 26, Oregon Agricultural College; May 27, Pacific University and June 2, Whitman college.

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This genuine hand-woven "Yeddo" hat was made in Switzerland. It is extremely comfortable; trimmed with silk band and extra quality leather. Durable as well; with style that greets the world with confidence; in white or natural. Low-priced, too, at—

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ENGINEERS PROUD OF OLD GRADUATES

Search of Records Shows Former Students Hold Responsible Posts

Idaho engineers are proud of their graduates and alumni and feel that the engineering school has turned out its share of successful professional men. A random search of alumni records revealed the following records of a few of the many graduates and their present occupations:

John H. Zeitler, B. C. E. class of '07, now an active stockholder and construction engineer with the Mercereau Bridge and Construction company, Los Angeles, California. Past work: 1898-99 mining in British Columbia, assayer, surveyor and engineer, on mountain road building and mining for the Gold Fields of British Columbia Corporation, 1900 Wild Goose Chase to the Buffalo Hump district in Idaho; 1901-2-3 with John Deere Plow company; 1904-5 in charge of Spring Creek Coal Mine, Lewistown, Montana; 1906-7 opening up coal mines in Wyoming; 1908-16 with Mercereau Bridge and Construction Company, Los Angeles, resigned to enter army; 1917-18 Captain of Engineers, U. S. A.; 1919 construction engineer, U. V. Mine, Arizona; 1920 construction engineer, Arizona state highway; 1921 contracting, Arizona; 1922 construction engineer, Big Creek project, Southern California Edison company; 1923 resident engineer, Rubidoux Bridge over the Santa Ana River, Riverside, California; 1924 to date, construction engineer with Mercereau Bridge and Construction company.

Samms Is Surveyor-General
Virgil W. Samms, B. S. C. E. class '14, now U. S. Surveyor General for Idaho, in charge of all public land surveys and of all mineral surveys for patent in Idaho, formerly assistant engineer Bridge Department of Oregon Short Line railroad; private in Field artillery during war; city engineer of Pocatello.

Freeman Alber, with Idaho Oregon Light and Power Company, also State Adjutant American Legion, National Vice commander American Legion, Secretary Veterans' Welfare Commission.

Eric G. Anderson, E. E. class of '23, requisition engineer switchboard engineering department, General Electric Co., formerly with the General Electric test and switchboard engineering department.

Alfred L. Anderson, B. S. chemical engineering, now assistant professor of chemistry, Idaho Technical Institute, Pocatello.

Harold S. Ayers, B. S. M. E. '21, now a consulting mining engineer, formerly with Boston Corbin mining company, Barnes King company, United States army, Beaver Creek mining company, testing department of Timber-Bottle Mill, superintendent Lee Gold mining company, manager of Judith Construction mining company.

With Government
J. H. Braham, B. S. chemical engineering, '14, M. S. and Ph. D. University of Illinois, now research chemist fixation and utilization of atmospheric nitrogen, U. S. department of agriculture.

S. P. Burr, B. E. M. E. '01, now superintendent Montana Idaho Copper company, Adair, Idaho, formerly superintendent of Rabbit Foot mine, East Pacific mine, manager Kent mine.

Fred Crandall, B. S. C. E. '24, Miami, Florida, now engaged in concrete construction work, formerly draftsman with American Bridge company, Gary, Indiana.

J. M. Crom, now district manager Cement Gun company, middle western territory, Chicago, Ill.

Earl David, B. M. E. '01, now president David Cline Co., and secretary, treasurer and manager Medina Oil and Gas company.

E. W. Ellis, now professor of mining and metallurgy, University of Idaho, formerly captain U. S. army, general manager Engineer Mines company.

William N. Ellis, B. S. M. E. '15, now assistant superintendent Anaconda Smelting and Mining company plant in East Helena, Montana.

James O. Elton, B. S. M. E. '09, now manager International Lead Refining company, International Smelting company, Anaconda Lead Products company, Tooele Valley railway, at Salt Lake City, Utah.

W. V. Leonard, B. S. M. E. '10, now state chemist and sanitary engineer at Boise, Idaho.

Former Mine Inspector
F. C. Moore, B. S. M. E. '09, now consulting mining engineer at Spokane, Old National Bank building, formerly chief engineer Federal Mining and Smelting company; State mine inspector of Idaho.

George Rember, B. S. M. E. '06, now president and general manager of Midnight Mining company, Wallace.

ENGINEERS ARE HOSTS TO SPOKANE MEN TODAY

(Continued from page 1)

ing the afternoon. Following their visit to the various buildings where exhibits are on display, the members of the Spokane association will leave for Lewiston where they will spend the evening. Tomorrow they will have an opportunity of comparing the showmanship of Idaho engineers with that of Washington State college engineers when they will be guests at the state college exposition.

At the noon luncheon today, Ivan C. Crawford, dean of the college of engineering will preside and introduce speakers. Frank M. Smith of the Bunker Hill Mining company, Kellogg, and president of the Spokane Engineers' association will address the students and members of his party. Dean Miller of the School of Forestry, Dean Thomson of the School of Mines and Dean Angell of the College of Letters and Science will also speak.

Immediately following the luncheon the visiting engineers will be personally conducted by the student engineers on a tour of the campus and through the various engineering buildings where exhibits and displays have been placed.

Townspice and students are invited to attend the "evening performance" which is slated to start at 7:30 p. m.

No efforts have been spared in making the exhibits and demonstrations interesting and attractive. The elaborate program will comprise a marvelous production of engineering skill and genius.

Guides and posters will serve to direct visitors in a systematic manner, so that no exhibit will be slighted.

A distinct feature will be the display of ultra-modern equipment and machinery which has been shipped to Moscow by the General Electric company, the Washington Water Power Company, the Bell Telephone company, the Sullivan Machinery company of Spokane, and other industrial manufacturing firms.



REINALD WERRENRATH to appear in following program Mon.

- I
- a. Caro mio ben...Guiseppi Giordani
- b. Over the Hills and Far Away..... (Old Irish) Arr. by Arms Fisher
- c. I'll Sail Upon the Dog-Star..... Henry Purcell

- II
- a. Du bist die Ruh...Franz Schubert
- b. Der Doppelganger...Franz Schubert
- c. Lauf der Welt.....Edvard Grieg
- d. Licht.....Christian Sinding

"Prologue" to Pagliacci...Leoncavallo

- IV
- TWO PIANO SOLOS
- a. Waltz in C sharp minor...Chopin
- b. Polanaise in A flat.....Chopin

- V
- An old Song Resung...Easthope Martin
- b. Beauty.....
- c. Captain Stratton's Fancy.....Deems Taylor

- VI
- a. The Great Adventure.....Percy Fletcher
- b. The Wreck of the "Julie Plante"... Geoffrey O'Hara
- c. Duna.....Josephine McGill
- d. Danny Deever.....after Damosch Mr. Herbert Carrick at the piano.

VANDALS TO MEET MISSIONARIES IN CONFERENCE EVENT

(Continued from page one)

vault in the Gonzaga, Washington State—Idaho meet last Saturday, will head the Idaho offering for the pole vault.

Idaho freshmen will compete in a trial meet this afternoon on MacLean field, preparatory to their two meets scheduled with Washington State college freshmen May 13 and May 27.

The Entrants
Coach Mathews has announced the following men as those who probably will be entered for Idaho Saturday against the Missionaries.

100-yard dash—Davidson and Thompson.

220-yard dash—Davidson, Thompson and MacDowell.

440-yard dash—Thompson, MacDowell and Bennett.

880-yard run—Archibald, Sowder and Hillman.

1-mile run—Archibald, Sowder, Hillman, Mathews and Williams.

2-mile run—Mathews, Williams and Thompson.

220-yard Low hurdles—Thompson, Huefner and Johnson.

120-yard High Hurdle—Heuffner and Johnson.

High jump—F. Powers and Wagner.

Broad Jump—Nelson, Wagner and Thompson.

Javelin throw—Towner, Nelson and Powers.

Shotput—Quinn, R. Hutchinson.

Discus—Nelson, R. Hutchinson and Quinn.

Pole Vault—Nelson and Nedros.

Entrants for the relay will be chosen from among the sprinters entered, said Mr. Mathews.

SENIOR MINERS PLAN FIELD TRIP

(Continued from page one)

specting the Anaconda plant.

Leaving Butte Sunday evening and arriving at Helena Monday morning, the entire day will be spent at the smelter at East Helena. Great Falls and Shelby will be the next stops. Here the engineers will make a study of the Anaconda Zinc plant and copper refinery at Great Falls and the Kevin Sunburst oil fields at Shelby.

Arriving at Sandpoint Thursday, a study will be made of the Talache mine and mill. Following this visit the party will return to Spokane and thence to Moscow, arriving here Saturday noon, May 23.

SENIOR SNEAKERS TIRED BUT HAPPY

(Continued from page one.)

in tow, the seniors took a trip up the lake to the summer home of Jerome J. Day. Luncheon was served en route.

Just before the boat left, an immense flag of Idaho colors was presented to the class by Mr. Weeks on behalf of Coeur d'Alene. The flag was raised while the students sang. The flag was accepted by Lewis Wil-

liams, president of the class.

Kidnap Lower Classmen
Many tales are told by seniors of efforts of lower classes to frustrate the sneak. Several seniors were captured late Monday and taken out in the hills and tied up, the Juniors Monday thinking that the class was to sneak Tuesday morning, the classes gathered to keep the train from leaving, but the seniors captured three juniors and took them a few miles this side of Palouse, where they were dropped off the train to get back the best way possible.

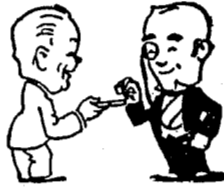
When the train arrived the class was introduced to Mr. Weeks, who told them to enjoy themselves while in Coeur d'Alene, and that the lake and the boat were theirs. President Alfred H. Upham, who accompanied the class, set the precedent and removed his necktie demanding that the others follow suit.

The program Tuesday afternoon included water stunts by Clyde Stricker and field day events on the beach at the Day home at Mica bay. The party returned at 5 p. m. leaving immediately for Moscow. Time out was taken at Spokane while the seniors enjoyed a picture show.

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