

## Game Tonight

The Oregon frosh will meet the Oregon State rooks at McArthur court tonight. Tu and cheer the boys along.

VOLUME XXXII

## Mercury Atom Theory Aided By Discovery

### Chance Find of 18 New Lines in Spectrum Made by Unger

### Physicist Teaching Fellow Photographs Electron Energy in Lab Here

Discovery of 18 new lines in the mercury spectrum of which 14 fit in with a general theory concerning the mercury atom has just been announced by H. J. Unger, teaching fellow in physics.

Mr. Unger some time ago announced the discovery of a shift of the benzene spectrum toward the visible end of the spectrum when light was passed through benzene vapor instead of liquid before it was allowed to enter his research apparatus. The results of this discovery were tentatively published as a communication in the American Physical Review.

#### Discovery Chance One

It was while calibrating his machine to obtain new photographs for illustration of a second and more comprehensive article on the spectrum shift discovery that the present find was made.

A slight irregularity in a photograph of galvanometer deflections caused by playing a beam of infrared or invisible rays across a

thermo-couple, a device which produces an electric current when slightly heated, first called Mr. Unger's attention to the work. For the last two weeks he has been engaged in taking and retaking photographs, checking and re-checking results, and figuring out the classifications until now his original find of one new line has been increased to the 18, of which 14 are in harmony with a theory already pronounced and indicating the theoretical position of possible new spectral lines.

#### Energy Release Photographed

The lines, according to Mr. Unger, are caused by the passage of an electron from its accustomed orbit about the proton or nucleus of the atom to another energy level. So long as an electron pursues its course in a defined energy level, there is no expenditure of energy, but if one for some reason leaps to another level or orbit a release of energy in the form of light is produced.

The machine with which Mr. Unger has been working resolves the light into its components and records them on a drum of sensitized paper where they may be studied after the paper has been developed and printed.

#### Discovery Confirms Theory

The discovery, according to Mr. Unger, adds to the already existing knowledge of the structure of the mercury atom. The chief value, however, lies in its confirmation of the theory regarding the atomic structure of mercury. It shows that the experimental structure is at least somewhat similar to, if not identical to, the theoretical structure and thus strengthens the conjectures regarding atomic structures.

The machine used by Mr. Unger in his researches was originally

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## Friday the 13th May Be Hard Day on Pre-Medic Students

Friday the thirteenth is liable to prove unlucky for pre-medical students who are planning on entering any medical school in the United States next year. For on that date at 3 p. m. all students with such intentions must take a psychological aptitude test, according to resolutions which were passed by the American Association of Medical Colleges at its last annual convention.

Dr. H. B. Yocom, of the zoology department, yesterday received instructions as to the type and time of the examination. The same test will be given simultaneously at all pre-medical schools in the United States. A fee of \$1 will be charged to all students taking the test.

This will be the only chance to take the examination as all papers will be sent directly to Dr. F. A. Moss, George Washington univer-

## Chemists Follow General Custom; Have Tea Party

What with tea being served upon every provocation—the A. W. S. now feeds tea and cookies with raisins in them at every meeting, and we've heard rumors that refreshments will be doled out between plays Thursday afternoons at Guild theatre—the chemistry department has broken down and concurred with the general custom.

Well, you see, it was this way: The chemistry department held their weekly seminar yesterday afternoon, and following the hour and a half of strenuous discussion and thinking, they needed relaxation, so Karl Klemm came to the rescue and prepared tea with all the trimmings. And everyone partook enthusiastically.

Proceeding the tea party, Klemm gave a paper on the "Preparation of N<sub>2</sub>O" and J. Marshall Honn presented a discussion of "Luminosity in Plant and Animal Life," or "The Candle Power of Fireflies."

## Women Students To Open Conclave At Oregon State

### Corvallis Will Be Host At Second Annual Co-ed Meeting

With a program of business and discussion occupying the morning session, a formal tea and banquet, followed by the Women's Stunt show, the second annual meeting of the State Organization of Associated Women Students will open at Corvallis in the Memorial Union building Saturday at 9:30.

Dorothy Kirk is the state president of the organization, having been elected vice-president at the initial meeting held on this campus last year, and succeeding to the presidency this fall. Official delegates from the A. W. S. will be Margaret Cummings, president of A. W. S., and Ann Baum, secretary. Others who will attend the meeting are Jane Cullers, vice-president; Bess Templeton, chairman of Peters lodge committee, and Helen Chaney, treasurer.

#### Groups To Discuss

At the morning session activities of women's organizations, social events, housing, finances, and general problems confronting organized groups of girls will be discussed by the delegates from the 14 schools which have been invited to send representatives. A permanent constitution, which has been drawn up by Miss Kirk, Dorothy Eads, and Helen Chaney, will be presented to the meeting for approval.

The Associated Women Students at Oregon State are acting as hostesses for the meeting. Betty Robley is president of this organization. At noon they are entertaining with a luncheon in the Memorial Union building for delegates, and in the afternoon are giving a formal tea in their honor. A formal banquet at 5:30 will finish the convention officially, but delegates will attend the Women's Stunt show, an annual affair, for which a section has been reserved for them.

Schools which have been invited

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## Prize List For Radio Contest Reaches Seven

### \$50 Table Lamp and Free Theatre Party Offered By Eugene Firms

### Feature Details Announced For Majestic Radio, Grand Award

Second, third, and fourth prizes for the second annual EMERALD-KORE radio contest were made known last night by Art Potwin, director of the contest, and these three awards, added to the list of the four already announced, equal a total of seven prizes that await the winners of the competition.

White-Marlatt company, 878 Willamette street, is offering a \$50 table lamp of latest design as second prize in the contest and, according to Hal White of the electric store, the fixture will combine the newest features both in mechanical structure and exterior appearance.

#### Theatre Party Offered

Fox McDonald theatre is offering third and fourth prizes. These will be duplicate prizes, both being a theatre party for the members of the organization winning the respective awards. Russel Brown, manager of the McDonald, said yesterday that the line parties for the winning groups may be arranged for any of the current attractions playing at the Fox theatre during the ensuing week after the announcement of the prize winners.

#### New Tubes Designed

A few details of the nine-tube Majestic radio that McMorran & Washburne are offering as grand prize in the contest were released yesterday by Karl F. Thuneman, advertising manager for the department store. The outstanding addition in the construction of the receiver is the installing of Grigsby-Grunow company's new "Multi-Mu" tube. This tube is so designed that all background noise, modulation distortion, and persistent tube hiss is eliminated. By the use of specially developed circuits to utilize all of Multi-Mu's inherent possibilities, hiss and background noise have been reduced to a surprisingly low level and all "cross-talk" and modulation distortion have been removed, according to Thuneman. A cabinet, done in beautiful wood, makes the Majestic one of the most attractive to be placed on the market.

#### Four Programs Sunday

Awards for the best opposite division and for the outstanding men and women performers were announced several weeks ago. Wetherbee-Powers furniture store will present a \$50 overstuffed Birchfield Cogswell chair as a best opposite prize, and Paul D. Green's store for men and the Denmore-Leonard ready-to-wear shop for ladies are offering silver loving cups to men and women radio stars, respectively.

Alpha Beta Chi, Friendly hall, Sigma Alpha Epsilon, and Beta Theta Pi, will be heard in half-hour programs Sunday night from 5 to 7 o'clock. This will be the fourth program in the contest series.

## Master Dancers Select New Members at Tryout

Three contestants were chosen by Master Dance, women's local dancing honorary, from the ten participating in tryouts, Tuesday night. The girls are Caryl Hollingsworth, Marie Meyers, and Virginia Hunter.

Caryl Hollingsworth is from Eugene, Marie Meyers is from Portland, and Virginia Hunter is from Wallowa. All three are juniors in the physical education department. This was the first tryout to be held this year, but another will be held at the end of spring term. Girls who are interested, and those who have tried out previously are urged to turn out again at the end of spring term by Lucille Hill, president of the organization. Work will commence immediately upon the spring recital.

#### Degrees Given 451

Regents of the University of California will grant 451 degrees and certificates earned at the end of the fall semester, it was announced recently by President R. G. Sproul.

## On Your Mantelpiece



Take your eyes off the environment and notice the silverware. The cup on the left, held by Nancy Thielsen, will go to the women's house entering the best vocal sextet in the polyphonic choir's intramural song contest; and the one on the right, displayed by Sally Adleman, will be awarded to the men's organization presenting the best quartet. The gentlemen are Arthur Boardman, director of the polyphonic choir, and George Barron, president. Miss Thielsen and Miss Adleman are members of the board of directors.

## 12 Law Students Will Enter Hilton Speaking Contest

### W. L. Morse Much Pleased With Present Outlook For This Year

Twelve law students have signified their intention of entering the Hilton prize public speaking contest, which will be held April 9.

Those who plan to enter the contest, which is limited to students of the law school, are: Ernest Burrows, George H. Layman, Eugene E. Laird, Con E. Hammond, Walter Durgan, Stanford E. Brooks, Harvey Benson, John Galey, Francis Coad, Otto Frohnmayer, Walter Norblad, and Sam A. Van Vactor. "The number of students who are entering the contest this year is very large, showing that the law students are taking a real interest in the competition. I am more than pleased with the present outlook for the event," says Wayne L. Morse, associate professor of law, who has charge of arrangements for the affair.

The subject for this year's contest is, "Resolved, That a defendant should be permitted, in felony cases, to waive trial by jury." The speeches will be limited to 12 minutes. The first prize, donated by Frank R. Hilton, of Portland, is \$50. To this the law school has added a second prize of \$25, and a third prize of \$15.

Last year Roy Herndon won first prize; Walter Durgan, second; and John Galey, third place.

## Punk Fisherman Save Rogue Fish, Asserts Roters

CAMPUS CENTER, Eugene, Feb. 4.—This commercial fishing proposition may have been up to the state legislature for the last 20 years, but the gents there didn't seem to have any easy time making it simple for us sportsmen to have full angling rights on the Rogue river. I figure now that the best thing for me to do is to buy a lot of land along the banks and build a neat little shack and have fishing all my own. If I don't, somebody else will. It seems sort of tough on these folks who make nothing but a bare living off of a few scales from the Rogue water, but the fish must be saved so turning the tackling over to some green-horn fishermen is the best thing the legislators could do.

Yours,

—BILL ROTERS.

## Patience, Faith Requirements In Social Work

### Mary Annin Says Sympathy Persistence, Courage, Needed in Work

### College Education Needful To Girl Interested in This Vocation

"If you don't like people, then don't ever go into social work," was the advice given by Miss Mary Annin, executive secretary of the Lane county chapter of the American Red Cross, in speaking before the third meeting sponsored by the Associated Women Students of their vocational project.

"You must like people in order to do case work," Miss Annin continued. "You must have faith that the people you have to deal with really want to and can change their condition. If you lack this faith you can never help them, for they will see that you are discouraged before you begin, and they won't want to make any effort to help themselves."

#### Patience Is Necessary

The social worker must have patience and persistence, and the courage to try again and again, Miss Annin said. She must have real sympathy and real feeling for people; she must be really appreciative of the people with whom and for whom she works. If she finds something to appreciate in everyone she tries to help, they will find something in her or her work to appreciate, and will be much more ready to help themselves, she added.

"You must be even-tempered, level-headed, possess good judgment and a scientific attitude, and you should have been insight into other people's troubles. You get this by watching people and seeing how they react to situations," she explained. "Then you should be efficient."

"It is dangerous to go into case work if one is not well adjusted and well rounded," the Red Cross executive advised.

#### Requisites Named

She went on to say that being suddenly plunged into a job which dealt with the more pathetic side of life was very likely to upset a person. A sense of humor is very valuable and quite necessary to the social worker to help her through discouraging parts of her work, Miss Annin added. Good health, and ability to meet and interest people are other requisites of the good social worker.

The girl intending to be a social worker should have a college education at least, Miss Annin said. After that she should get special training. For Red Cross work a girl spends six months working in a Red Cross office while she is still in school, and then spends another six months doing probation work at a salary of \$109 a month.

"I never heard of a case worker being bored," declared Miss Annin. "I don't believe it is possible. No two days of this work are alike. Every day is a drama, more interesting than any movie or play that you ever saw. It is the most gratifying kind of work I know."

#### Kinds of Work Varied

There are many kinds of work a social worker may do. She may do family case work, where her problem is to analyze the situation in the family, and then help them to help themselves to become a social good to the community.

Another fascinating kind of work is that for children, Miss Annin said. This work is done in the courts and by visiting teachers, who get the child before he is delinquent and remedy conditions which would lead to his delinquency.

Disaster relief is another phase of the social worker's job. There are also the psychiatric and medical sides of the work.

#### Job as Visitor First

The first job a social worker holds is that of visitor, Miss Annin said. She has from 35 to 150 families under her supervision, and it is her job to see that they learn to adjust their problems and become good members of the community. This work pays \$1080 to \$1500 the first year, and from \$1200 to \$2100 the next years.

The next position is that of case supervisor, who, in addition to

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## Old Ford Coupe Heaven-Sent For Keenan, Roberts

Through the grace of Harry Kincaid's ability to pilot an old, broken-down Ford coupe, the Webfoot basketball squad is happily on its way to Moscow, Idaho, with Bill Keenan, speedy forward, and Cap Roberts, tall center, safe on board the train.

For a short while yesterday afternoon phones were busy around the Fiji and S. A. E. houses seeking information as to the whereabouts of the two hoop stars. The train was ready to pull out for Portland and Keenan and Roberts were not among those present. Manager Norman Eastman was pulling his hair and Coach Bill Reinhart had a worried look on his face.

Then there came roaring through the crowd at the depot a delapidated car. On it came, over the station platform, dodging porters and passengers, right up to the door of the Webfoot's special car. Keenan and Roberts jumped aboard and the harassed conductor, who had held up the train for nearly ten minutes, signaled the engineer to start.

It seemed that Keenan, Roberts, and Kincaid, who is a varsity golf letterman, had been downtown imbibing milk-shakes, buying toothpaste, etc., when they discovered that it was nearly train time. They hurriedly called up the S. A. E. house and asked Wally Boyle to bring their suitcases to the train. Boyle snappily replied that they could tote their own luggage. He was no porter. So the three hot-footed it to the campus, only to find that Boyle had left, with the luggage, having changed his mind, even as a woman might. So down to the depot they roared, dodging milk trucks, telephone poles, and stray co-eds. They made it as you have read.

## Gamma Alpha Chi Announces Date Of Fashion Dance

### All-Campus Affair To Be Held Friday, the 13th; Styles To Be Shown

"Smart sports outfits, lovely afternoon dresses and new spring formal—does this not make one look over her wardrobe and be interested in the newest things for the coming season?" asked Jo Stoffel, president of Gamma Alpha Chi, women's national advertising honorary, in announcing the Fashion dance to be given by Gamma Alpha Chi at Coconut Grove, Friday, February 13.

#### Girls Will Model

McMorran & Washburne are waiting now for a new shipment of clothes to be modeled by prominent and attractive girls of the campus, Mr. Karl Thuneman, advertising manager of the department store, announced. Some, he said, are afternoon prints of which quite a few have already been seen on the campus, but which take more charming patterns in the new spring models.

"Oh, yes," Mr. Thuneman added, "I've asked Orville Thompson to see to it that new outfits for men, too, will be represented. But

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## New Russian Student Reveals Love of Foreign Traveling

### By GEORGE ROOT

Life is a great adventure, at least it is to some of us, and the University of Oregon's new Russian student is a staunch believer in the fact. Meet Miss Nina Bolhovitnova, charming new co-ed from Harbin, Manchuria, who entered the University at the beginning of this term. Her present home address is Medford, Oregon, but her high school credits came from China. It all happened like this.

"I love traveling," Miss Bolhovitnova explained. "I had always wanted to travel and see the world. My mother, my brother, and my sisters—they wanted to travel, too. My father is dead. So we left China and came here to America." "Where did your boat land?" "San Francisco." "Did you like San Francisco?" "Ooh, it is a dirty town!" Then the family separated, she

## Oregon Babes To Meet Rook Squad Tonight

### Frosh Mentor Has Gloomy Outlook for Slumping Yearling Five

### Mental Let-Down Is Cause Of Pessimism; Close Fray Expected

After taking a peek at Coach Callison's proteges working out at the Igloo last night, we are inclined to lean toward his pessimistic viewpoint that basketball games depend upon mental attitude, for if there ever was a team in the frame of mind for a white-washing, the frosh have arrived.

The same dogged and slow-moving play that has marked the workouts all week has been very much in evidence the last couple of days. The outfit seems to have forgotten about twice as much as they ever knew about the grand old game of basketball and have come out to the practices like a pink tea was in sight. At this rate the boys seem due for one of the worst drubbings in history when they tangle with the rooks tonight at 8 o'clock in the Igloo.

#### Frosh in Lethargy

Callison's pep-talks before practice every night appear to be wasted on the yearlings, but a last minute rally may pull them out of the lethargy. With the exception of a few sparkling moments, the babes look like a last stand. From as fine a crop of frosh basketweavers as every struck these parts, they have let down to the breaking point. Something is bound to happen. Either the outfit is going to lace the rooks up tight or they're going to take an awful one on the chin tonight. There can't be any half-way business. It just isn't on the books.

#### Lillard To Be Busy

Jumping Joe Lillard, frosh center, will have his hands full checking Lenchitsky, the Orange sharpshooter, who along with Atkinson has provided lots of action for opposing guards. Both these boys will be along tonight to make the babes step high, wide, and plenty fast.

A last minute change in the starting lineup may snap things up a bit. In the practice last night, Bill Eberhart, a lanky Eugene product, shifted to guard, may surprise the fans and pull through with a good performance. Eberhart, brother of the varsity pivot man, has plenty of possibilities, but so far they're only possibilities, that shine out in a flash or two of sweet playing. The remainder of the lineup will remain the same.

#### HONORARIES TO MEET

Gamma Alpha Chi, women's national advertising honorary, and Alpha Delta Sigma, men's national advertising honorary, will hold a joint meeting once a month, it was announced yesterday by Josephine Stoffel, president of Gamma Alpha Chi. The speakers for these meetings will be announced by Harry Tonkon, president of Alpha Delta Sigma.

## Love of Foreign Traveling

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## The Weather

Maximum ..... 48  
Minimum ..... 33  
No precipitation.

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