

Oregon Summer Session is in Heart of Oregon Outdoors

Summer Course To Tell Sky's Many Wonders

Dr. Oliver J. Lee, Noted Astronomer, Has Food For Imagination

Those who are fond of travel will get many thrills out of astronomical journeys beyond the milky way into the depths of the universe, if they take Dr. Oliver J. Lee's summer course in astronomy. When Dr. Lee lectured at the University of Oregon campus a short time ago, the imaginations of his audience were taxed to the utmost in their efforts to follow him into the realms of space where, with light traveling at 186,000 miles a second, stellar distances are measured in light years.

During the lecture fascinating photographs of stellar and solar phenomena were thrown on the screen. Stars thousands of times as large as our sun; shoals of star dust, blacker than the blackest midnight; solar explosions that shoot flames three hundred thousand miles into space; and dark stars with a density seventeen thousand times as great as water, were only a few of the surprising facts which he discussed in the course of his talk.

Star Evolution Told

The evolution of a star is now pretty well known, thanks to the revelations made by the photographing lens and the spectrum. The oldest and largest members of the star family are the flaming red ones, while the infants, or those now in the process of creation, are seen as nebulae.

The bluish white stars are the hottest. But as soon as contraction has increased the density of the gas beyond a certain point, the temperature begins to fall and the color changes to yellow. Then the star has entered the dwarf stage, or that to which our sun belongs. With the lapse of millions of years the star finally turns to a deep red. The passing of a few more million years brings entire extinction of light and the body has become a cold and solid globe, perhaps like our earth.

The life cycle of a star varies with its chemical constituents and probably all dead stars are not similar. But some dark stars like the invisible companion of Sirius have reached a stage of density in which the atoms have lost their electrons. This condition permits a condensing of matter so great that one cubic inch of it weighs a ton.

Cosmic Dust to be Explained

To those who want to know how astronomers discover facts like these, Dr. Lee will explain it all at the summer session in Portland. He will also tell about nebulae and cosmic star dust.

Spiral nebulae with their pockets of black star dust are even more interesting than dying suns, for the nebulae are new stars in the process of creation, or perhaps new solar systems swinging in a haze of cosmic dust. The spiral nebula in the constellation of Andromeda has been known and studied for two thousand years, but the spiral nebular hypothesis is of quite recent origin and resulted partly from studying the photographic plates.

Another curious phenomenon revealed by photography is the immense drifts of black star dust, probably cosmic material, awaiting the energizing spark which will set it evolving into new stars by way of the nebula workshop. Dr. Lee will show slides in which the stars stand out from patches of blackness, as deep as black velvet.

Course Non-mathematical

One class in the summer course is a detailed study of the solar system and is largely non-mathematical. At least one evening a week will be spent in studying the heavens. The stellar system is the subject of the other class and is a study of the stars and nebulae of space, their nature, motions and relations. It is also chiefly non-mathematical and students will find it to their pleasure as well as their profit to take both courses.

Dr. Oliver Justin Lee was for three years assistant professor of practical astronomy at the Yerkes observatory of Chicago University. He is a fellow of both the Royal Astronomical Society of London and of the American Association for the Advancement of Science, to name only two of the most important astronomical societies to which he belongs. He is the author of over fifty notes, articles, and monographs giving the results of researches in stellar spectroscopy, solar physics, stellar parallax and motions.

Beta Phi Alpha Heads Grade List at O. S. C.

Oregon State College, Corvallis, May 14, (P. I. P.)—Beta Phi Alpha sorority headed the grade list of campus organizations last term with an average of 89.02. Sigma Phi Epsilon led the fraternity group with an average of 88.85.

Mrs. Sharp Begins Boosting Boat Trip

Mrs. Margaret M. Sharp, secretary of Portland Center, has already begun to agitate the "boat trip." This is the big recreational event of the session at Portland. One of the biggest of the river boats is chartered and several pleasant hours are spent in cruising down the Willamette and up the Columbia. Mrs. Sharp is expected to criticize this session because it contains no picture of the boat. This will be run at a later date. All those who make the boat trip one year are counted on for the next if in hailing distance. Mrs. Sharp has been with the Portland Center as secretary for nearly ten years, and each year since that time the "boat trip" has grown bigger and more enjoyable.

Course Attracts Lab Technicians

Eight-hour Daily Program To Last Ten Weeks

Training in the technic of all the diagnostic tests carried out in the routine of physicians' and hospital laboratories and of those of state and municipal health departments is the aim of the laboratory technicians' course to be given during the summer session at the school of medicine on Marquam hill, Portland.

Enthusiastic response from within and without the state has made the course possible, according to Alfred Powers, dean of the extension division. An enrollment of at least ten was necessary before the course could be guaranteed.

A detailed study of the chief disease-producing bacteria, with special emphasis upon the characteristics necessary for the identification of specific organisms will be included in the course. Training in the preparation of culture mediums and the production of diagnostic serums and vaccines has also been planned.

Special attention is to be given to the technic of serological tests, including the Widal and Wassermann and Kahn reactions. A brief study will be devoted to the more important animal parasites of man, especially as to their demonstration in pathological material.

Practical working details of the tests will receive emphasis throughout the season rather than their fundamental scientific basis. Medical and other scientific terminology that will enable the students to be freely conversant about the work and to obtain a broader knowledge through outside study will be taught, and a list of available published information sources will be given.

The eight-hour a day program of ten weeks duration will consist of bacteriology, serology and immunology, public health bacteriology, parasitology, clinical chemistry, and hematology. Emphasis is to be placed upon the laboratory hours, of which there will be 320 as opposed to the 120 hours devoted to lectures and quizzes.

The fee of \$150 includes laboratory fees and all other items except textbooks. Graduation from an accredited high school and the completion of a preparatory course in chemistry are prerequisites for admission to the course, in which no part-time students will be enrolled.

Harry J. Sears, professor of bacteriology and president of the Oregon branch of the Society of American Bacteriologists, will be a member of the faculty, as will Clinton H. Thiemes, M.D., Ph.D., assistant professor of pharmacology, and William Levin, Dr. P.H., who is the director of the laboratory of the state board of health. All are members of the regular teaching staff at the school of medicine.

Dr. Bowen To Give Summer Session Work

Romance languages in the summer session at Eugene will be in charge of Dr. Ray Preston Bowen, head of the department in the University of Oregon. Dr. Bowen's academic record includes work at five universities in America and Europe—Harvard, Cornell, Geneva (Switzerland), Grenoble (France), and University of Paris.

He will give three upper division and one graduate course. Associated with Dr. Bowen in the summer session faculty will be Associate Professor Leavitt O. Wright and Miss Andree Pellion.

Dean of College Will Teach Two Courses In Economics

During the regular University year, Dr. James H. Gilbert's duties as dean of the college of literature, science, and the arts leave him little time for teaching. With that heavy routine much lightened in the summer session, Dean Gilbert will handle two classes in economics. One in principles and the other in banking and crises. The third course in economics in summer session will be railway economics, to be taught by Assistant Professor Donald M. Erb. Post-war international economic problems will be handled in post-session by Assistant Professor Victor Morris.



Dr. James H. Gilbert

"Sun" To Beam For Students Via Efforts of Summer Journalists

Ancestry Includes Typed, Posted Bulletins

New York has its Times, Portland its Oregonian, the University its Emerald, and the Summer Session its Sun.

It has come to be a real newspaper, this Summer Session Sun. Back in 1918 it was printed twice a week, but it was a small, three-column affair. In 1921, when it was called the "Acta Diurna," and 1922, it never came nearer a printing press than the typewriter, and the sheets were posted daily in front of the main library. While this arrangement literally made the subscriber find his way to the paper instead of the paper finding its way to the subscriber, it nevertheless worked well for two whole summers.

A publication of this nature was without limit when it came to illustrations. Snapshots and photographs of all kinds were pasted, with titles

proper or otherwise, wherever their presence was deemed advantageous. There was one drawback. The Sun could not afford to keep a guard on duty day and night and these snapshots and photos had a habit of disappearing.

For the past few summers the Sun has been an honest-to-goodness printed newspaper. It has been enlarged, and it is now published regularly every week on the presses of the University printing shop.

The Sun practically fills the place of the Emerald during the summer months. It prints items of interest to summer session students and all campus news in general. The staff of the Sun is recruited from the summer journalism classes.

Besides having their own publication, students have opportunities to see their work in print in the Eugene and Portland dailies. Writing for city dailies has received increased attention on the part of the journalism faculty this year, and its success is expected to carry it on through the summer months.

Summer Enrolment Has Rapid Growth

SUMMER session in 1927 numbered 1,234 students, 670 in Portland and 564 in Eugene, in contrast with the first summer session records, which show a total number, in 1915, of 183.

Attendance at Oregon's summer session doubled several times in the years from 1915 to 1927. The increase was fairly steady, except in 1917, when there was a jump from the slightly over two hundred of the year before to 604; in 1920 the total enrollment dropped from seven hundred to six hundred; but since then attendance increased until, in 1927, students enrolled both at Eugene and at Portland, for the summer session alone, numbered 1,234.

Student Has Article Printed in Magazine

The April issue of the Oregon Law Review, contained an article written by Helen Louise Crosby, the only girl in the second-year law class at the University, on the recent Oregon case of Osburn v. De Force. Miss Crosby received her B. A. degree last June. It is unusual to have an article written by a girl in the law school, printed in the Law Review.

Math Is His Line



Prof. E. E. DeCou

PROFESSOR DE COU, head of the department of mathematics in the University of Oregon, is to be in charge of mathematics in the summer session.

Graduate School Shows Growth

Enrollment More Than Doubled Since 1921

"Graduate students are usually more numerous in the summer session than during the regular term, because of the great many teachers who make deliberate plans for advanced work for degrees and find the summer their only time for such work. Numerous men from other colleges also enroll," said George Rebec, dean of the graduate school. The number of graduate students enrolled for summer work has been mounting, with slip-backs in 1923 and 1925, since 1921, before which year no statistics were kept regarding summer enrollment. In that year 97 graduate students registered, with 60 at the regular session alone. Last year 161 were on the campus for the first period, with 208 chalked up for the entire three months in Portland and Eugene.

Dean Powers Teacher, Writer, and Organizer

Alfred Powers, dean of the extension division and director of both summer sessions, is an Oregon graduate, class of 1910. Before becoming connected with the University of Oregon, in 1917, he engaged in some school administrative work and fell into the habit of contributing to magazines—a habit he has retained and



Dean Powers

developed. After the war he returned to the Northwest and held an executive position with the American Red Cross. He came back to the University in 1920 as University editor, in the school of journalism; in 1922 he became assistant director of the extension division; and on the resignation of Dean Kilpatrick in 1926, he succeeded to the deanship. Mr. Powers has been in charge of organizing the summer session faculty for Eugene and Portland this year.

Old Summer Students Back as Instructors

Among the special instructors in elementary education problems and school administration are included two men who obtained their advanced degrees in the University, largely through summer session study. Both C. A. Howard, state superintendent of public instruction, and Dr. Raymond E. Baker, professor of education in Albany College, were familiar figures on the Oregon campus in summer sessions not many years back.

Graduate School Head



Dr. George Rebec

Prospects for Large Summer School Good

Prospects for a "bumper" summer school enrollments are extremely good, according to Miss Hilda Olsen, secretary of the summer session. Letters have been pouring in from all over the state saying definitely that the writers were intending to come. And letters have also been received from Nebraska, Connecticut, New York, West Virginia, from all over the United States and even from Canada and Mexico.

Catalogues with a complete list of courses and professors can be secured by applying to the Extension Division.

English A Cleared Now Saves Cash Next Year

A list of all University students who must clear English A. before their record is clear, has been posted on the second floor bulletin board in Villard hall. Kenneth Shumaker, supervisor of the work, says that this list is not final and there may be changes.

As a \$10 fee will be charged for this sub-freshman course next year, all who can should remove the condition as soon as possible. Mr. Shumaker is willing to answer questions on how the English A record may be erased.

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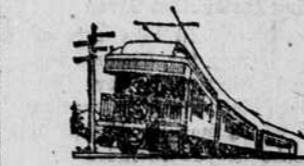
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Then, too, you will want to visit our General Book department on the **Book Balcony**. Aside from the prosaic text books, we have developed this department in the interest of general reading. You will also probably take advantage of our **High Hat Rent Shelf**, where you will find late books in fiction and non-fiction.

Your advent here will want to be marked by a few things for your room—memories of a pleasant summer can best be recalled by a pennant, a memory book, an Oregon plaque or a ring. We have a number of these things—yes, "really too numerous to mention."

But at any rate—we look forward to seeing you and take this opportunity to wish you the pleasantest summer ever.



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Tickets on sale Fridays, Saturdays, or Sundays; return limit Tuesdays. Low Round Trip Fares between Eugene and other Oregon Electric points.
Albany, \$2.50
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Tickets on sale daily; 15 day return limit.
Special Rates to all those planning to attend the University of Oregon Summer Session at Eugene, Oregon. Special rates may be made with our agents from points all over the United States.

Trains leave Eugene for Portland at 7:00 a. m., 10:25 a. m., 2:15 p. m., and 5:40 p. m., daily.

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Library Larger This Year, by 16,300 Volumes

Total Is Nearly 190,000; Several Members Added to Staff

Since the 1927 summer session, 16,330 volumes have been added to the shelves of the University library, making the total now available 187,330. The number added is a substantial increase over the number of accessions the preceding year, according to M. H. Douglass, librarian.

"All reserve books will be put on the shelves upstairs in Condon hall for the summer session," Mr. Douglass said. "The history and English reserves are to be transferred to Condon until the post session, when they will be brought back to the main library."

The books on reserve now, those which will not be in demand for the summer session courses, will be taken off reserve when school closes in June; the newspaper room at the main library will be open during the entire summer session.

The regular library staff has been changed and several full time members have been added this year.

Mrs. Mabel E. McClain heads the circulation department, with several assistants. Hazel Johnson is first assistant in the circulation department; Alice Dorman, who has been in the circulation department this year, is leaving in June; and Marjorie Myers, who had charge of the English and history reserve, has been transferred to the circulation department.

Miss E. Casford is still periodical librarian, assisted by Reta Ridings, and Mrs. Pearl M. Watt is the new reference librarian. Mrs. Betty Mae Stamm, formerly assistant in the English and history reserve, is now in charge of the reserve, and Mrs. Marjorie Reynolds is assistant.

In the general reserve are Mrs. Dora Francis Ford, who is in charge, and Mabel Klockars. Mrs. Blair Alderman is in charge of the business administration department. Miss Beatrice Barker is cataloguer, assisted by Miss Marguerite Schwab, and Miss Martha Spafford is back in the continuations department, after several months' absence.

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