

# Light From 'Island Universe' Stars Just Reaching Earth

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"How far can one see with this telescope?" is often asked by observatory visitors. Let us counter it. "How far can one see with optical instruments of any kind—excepting a pair of good eyes?"

Along the earth's surface we observe hills, mountain ranges and snow peaks at distances of 10, 50, 100 or more miles depending upon the clarity of the lower air. The stratosphere balloon, Explorer II, sailing 12.7 miles altitude in its coast from Rapid City, South Dakota, on November 11, 1935, enabled its passengers to see 330 miles in every direction, or into several states. Even the curvature of the earth was evident. When looking into the sky, we see the moon a few hundred thousand miles away. For the stars and planets, this becomes billions of miles. For the fixed stars we skip the next denomination, billions, and get their light from the immense space of trillions of miles.

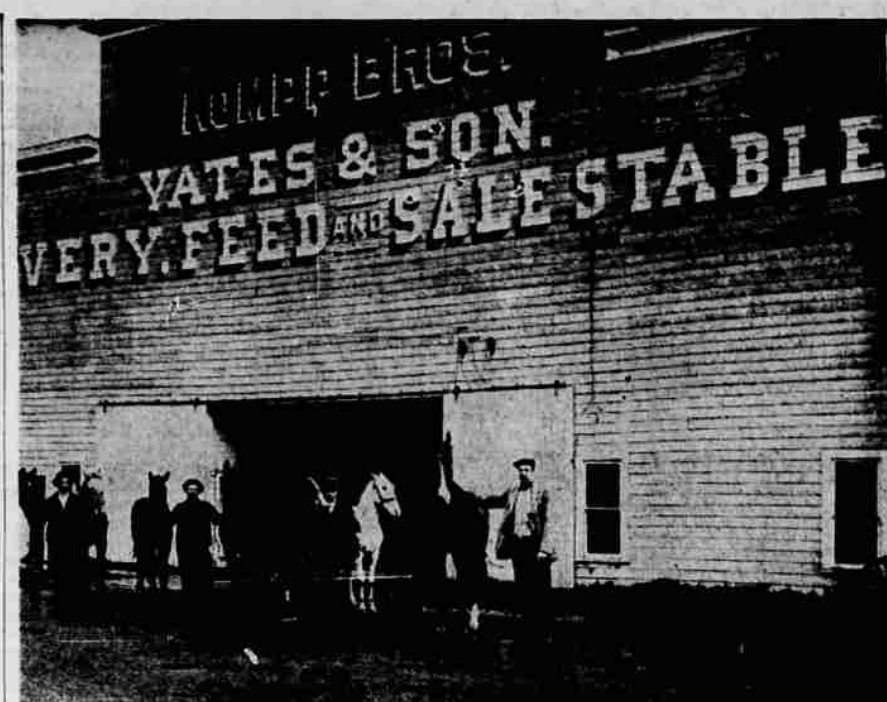
But our eyes, if good, will receive light from "far beyond the stars," and receive past quadrillions, and from quintillions of miles of

almost eternity. At this time of year around 7 p. m. there is almost directly overhead an object that is four quintillion (4,000,000,000,000,000) miles from us. This object is so inconceivably far away that its light traveling 186,000 miles a second, is just now reaching us after 700,000 years of flight across an immensity of night and nothingness. This is the great Andromeda galaxy, another immense star system far outside the borders of our own galaxy of billions of stars, and sometimes called an island universe.

If you are well shielded from artificial lights and the air is very clear, you should have little trouble seeing this far away wonder, which will appear as a very small and faint hazy patch, about like the head of a distant comet. This is the most distant object you can see with the unaided eye.

Until 20 years ago the Andromeda galaxy and numerous other similar objects were thought to be members of our own star-system. Although it looked like a nebula, the spectroscopy showed its light was that of stars. With the aid of the huge 100-inch Mt. Wilson telescope and modern photography, it has finally been resolved into millions of the tiniest of pin-points of stars, seemingly so packed as to make almost a continuous cloud as seen with most telescopes. Recent methods of space-measurement reveal its real distance.

Unaided eyes have this privilege of looking across four million million miles of space and "absorbing" in the process of looking, live bits of radiation that are more than 100 times as old as the pyramids of Egypt. Look for this at your first opportunity. Its reality is overwhelming!



REMEMBER! This old livery stable used to stand at the corner of Seventh avenue east and Oak street. Bud and Charles Kompp were members of the firm which operated it. They did business there from March, 1910, to 1930, when the building was torn down to make way for another structure. In the picture, left to right, are Will Winfrey, Eldon Leep, Oscar McCornack, now deceased, all of whom were employes, and Bud Kompp. The picture was taken in 1914.—(Willshire engraving.)

## School Newspaper Contest Announced

The annual high school newspaper contest has been announced by George Turnbull, acting dean of the school of journalism at the University of Oregon. The contest will be held under the direction of Robert C. Hall, associate professor of journalism and superintendent of the University Press. Hall has directed these yearly contests among the publication of the high school of Oregon for a number of years.

To enter the contest high schools must send copies of two issues published during the current school year to the school of journalism at the university. All papers must be in the hands of the judges by March 5 and a fee of \$2 is charged to cover costs of judging and preparation of an intensive critique of each paper in the contest. The awards, heretofore based on the work of the previous year's staffs, will be given this year to the present staffs.

The contest is divided into several classes—weekly and biweekly mimeographed papers; monthly mimeographed papers; printed newspapers representing schools of 500 or more enrollment; printed newspapers representing schools with enrollment under 500; news notes in local papers. The best all-around newspaper in the state is awarded the Arnold Bennett Hall trophy.

Winner of the Hall cup last year was the Pendleton Lantern, published by Pendleton high school. The Klamath Krater, of Klamath union high school, was winner of the Guard cup for best paper in a school of more than 500 pupils. The Forest Grove Viking Log last year won the Register cup for the best paper in a school with less than 500 enrolled. The Eric W. Allen cup for the best mimeographed weekly was given to the Carlton Hi-Life in 1944. Grants Pass high school won the Harris Ellsworth award for the best school notes published in a local paper and the association cup for the best mimeographed monthly paper went to McKenzie Echo.

Judges for the contest will include three upperclass journalism students, under faculty direction. Wartime conditions have made the regular annual high school press conference impracticable this year, Dean Turnbull announces.

land, Friday.  
On Jan. 13, Cressman and Dr. Warren D. Smith will participate in a meeting of the Oregon Academy of Science to be held in Portland.  
A paper will be presented by Cressman at this meeting as part

of a symposium on early man in Oregon. Smith will preside over the symposium and other members participating will be Dr. Ira Allison and Dr. Henry Hansen, both of Oregon State college.  
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## Social Security Beneficiaries Rise

The number of monthly old-age and survivors insurance beneficiaries in force in the area served by the field office of the social security board increased 35 per cent during 1944; it was announced Friday by Charles H. Cannon, manager, in a year-end statement.

Explaining that his figures are estimated, and subject to minor revision, Cannon said 1549 men, women and children in his area have benefits of \$26,091.79 a month; a rate of \$313,101 a year. The service area of the Eugene office includes Coos, Curry, Douglas, Josephine and Lane counties.

Benefits are being paid in the following five classifications: retired workers, aged 65 or over, \$15,303.48; wives 65 or over, retired workers, \$2,239.37; widows with young children, \$2,424.84; children of deceased or retired workers, \$5,075.93; aged widows of deceased workers, \$956.43.

In summing up the situation on the social security front, Cannon said the most serious cause of concern to the board's field offices is that some people do not know their rights under the old-age and survivors insurance program, and as a result, may lose some of the benefits.

To correct this, he advises any person who has worked in a job covered by the law, and who reaches the age of 65, to check with the social security office, even though he does not plan to retire.

When a worker dies, Cannon said, some member of his family should communicate promptly with the nearest office of the social security board.

## Lane County Lookouts

Happy New Year is the theme song of this report, the medium through which the officers of the Lane Lookouts send greetings to all members.

In a letter from President Bernice Ruble she writes: "I hope each one of you had a nice Christmas and that the glad tidings of great joy may linger, and be a blessing and inspiration through every day of 1945. The many Christmas greetings made me very happy and I wish to say a big thank you to all. The progress of our club is the result of combined interest and loyal efforts, and I am proud of it. Let us continue to go forward with chips up!"

Miss Ruble also recommends the adoption of a resolution which urges each member to resolve to secure at least one new member during the ensuing year. She asks for a vote of thanks from the club to Mrs. Conley and her girls for the swell job of packing and mailing the bulbs in time for Christmas. Right here is where this fresh pen is going to take liberties with the press and thank Mr. George Hart of the Register-Guard for having so generously allotted space to our reports during this past year.

No word has been received from the membership committee, which adds up to no new members at the present writing, but since their recent efforts proved so fruitful, we will forgive them this time.

A financial statement from Mr. Dave Dawson, secretary of records, receipt of \$4 from three members, expenses \$10.60; leaving a balance of \$7.27.

Here is an announcement. In case of loss of, or obliteration of, or theft of any members' membership list please notify Mr. Paul Davis, who will gladly oblige with another.

Universal understanding, free as the air to those who seek diligently is the key which unlocks the door of the kingdom of brotherly love and peace. If it is true, that man is as he thinks, then think peace, in order to overcome the forces which declare we will always have wars because such is the nature of man. As a group, let us send our good thought waves out into the world and perhaps like the song, found again the heart of a friend, they will find their proper place in the scheme of things, so that man's mental and physical ability may be used, constructively, in rebuilding, not only the material torn world, but, to build the more stately mansions, oh my soul!

In conclusion our president extends very best wishes to all and may God bless each one of you and keep you.

—MRS. LOSETH, Sec.

## Hudson Returns From Housing Job

Harlow Hudson, instructor in architecture at the University of Oregon, has returned to campus after nearly two year's leave of absence and will resume his duties at the school this winter term.

Hudson left the university to supervise war housing in the Seattle area and also worked out of the Seattle office of the federal public housing authority throughout the Pacific northwest. Design, construction and the operation of war housing projects comprised his job. The largest single unit built under his guidance in the Seattle area, consisted of 2300 houses, Hudson reports.

From Seattle, Hudson went to Klamath Falls for six months where he worked on the marine recuperational barracks and the naval air center constructed there.

During the past six months Hudson has been with a construction firm working in Eugene and Springfield, building a number of groups of war housing projects.

All together, Hudson estimates he has supervised or worked on the building of about 30,000 houses—enough to make a nice small city.

A Eugene boy, Hudson attended Eugene high school and the university before teaching. He will specialize in city planning instruction as well as general architecture.

## Dr. Cressman Attends Session On Museum

Dr. L. S. Cressman, head of the anthropology department at the University of Oregon, was attending a meeting of the state committee on an Oregon museum of history, science and industry in Portland, Friday.

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## Marion Cole To Give Concert Next Thursday

Marion Cole, Eugene vocalist, with Betty Jean Taylor at the piano, will present a concert at First Christian church Thursday, Jan. 18, at 8:15 p. m.

The concert is to be a benefit for post-war missions. There will be no admission charge. A free will offering will be taken. The public is welcome.

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