

YEARS REQUIRED FOR MOST RAPID FLIGHT TO STARS

Speed of Light Would Take Aviator Forty Years to Reach Arcturus As Journey Just Beginning

By F. R. Colton (Associated Press Science Writer) PASADENA, CAL.—(AP)—If an aviator could jump astride a light ray on the sun and ride it out through space, it would take him 300,000,000 years to reach the most distant object ever seen by men.

Such an imaginary flight through space is described by Dr. Walter S. Adams, director of the Mount Wilson observatory of the Carnegie Institution of Washington, near here, to give an idea of the present knowledge of the size of known space.

Mounted on his light ray, the space-flier would travel at a speed of 185,000 miles a second, or 669,000,000 miles an hour. Strange things would happen to him, however, while traveling at this terrific pace.

"At such a speed," says Dr. Adams, "the relativity theory tells us that his mass (or weight) would become infinite and his thickness zero, however unconscious of either condition he might himself remain."

To Earth in Eight Minutes Taking off from the sun, the space-pilot would cover the 93,000,000 miles to the earth in about eight minutes. Next landmark on the way would be the planet Neptune, which he would reach in about four hours. Then he would plunge into a huge void that would take his light ray four years to cross. At the far side he would pass the dwarf star Alpha Centauri, about as bright as our sun.

After nine years the flier on his light ray would reach Sirius, first of the giant stars, and would fly 40 years before reaching Arcturus. It would take him 500 or 600 years to reach the hot, bright stars that form the constellation of the Pleiades and the Belt of Orion. But after all this time the space flier would be barely started on his journey.

If he steered a course in the direction of the Milky Way, it would take him 100,000 years to reach the outer limits of our part of the universe or galaxy of stars of which the sun is a member.

700,000 Years Out Leaving our universe behind, the space pilot's next important stop would be the Magellanic Clouds, composed of hundreds of thousands of stars. Beyond them, after 700,000 years of flying, he would reach a similar cloud which bears the catalog name of N. G. C. 522.

From there he would pass out into the real depths of space, the domain of the great nebulae, each one of which is a "universe" in itself. The first nebula to be reached would be Messier 33 and the Andromeda Nebula, after about 770,000 and 800,000 years respectively.

After 800,000,000 years he would pass the most distant nebulae ever seen, or rather photographed, and disappear into regions no existing telescope has penetrated.

TEMPORARY TAGS SOLD WEDNESDAY

Starting tomorrow the sheriff's office will issue temporary permits for two weeks. Reports that Governor Meier would grant a moratorium on auto licenses this year are groundless, according to advices received here. The governor is expected to issue a statement within the week upholding this view. Instructions will soon be issued that new licenses must be shown on all autos after July 1st.

State officials hold that if an auto is too poor to buy an auto license, he is too poor to buy gasoline. Furthermore the economy program of the governor is based largely on the anticipated receipt of auto license fees, and any moratorium would derange the plans. Another item involved is funds for emergency relief work, the coming winter.

INFORMATION ON MEDFORD WANTED

A letter requesting additional material regarding the scenic offerings of southern Oregon and general information regarding the city of Medford, was received today by the Chamber of Commerce from the Conoco Travel Bureau, which has a number of agencies distributing vacation material throughout the United States.

The letter, mailed from the Denver office, states that requests for travel information from tourists are now coming in at the rate of 3000 a day. Booklets and the new material, now being prepared to publicize Medford, will be forwarded the bureau. Anyone in this city desiring travel information concerning other regions is also invited to take advantage of the Conoco service by getting in touch the local Chamber of Commerce, which will forward the requests. The information is provided free of charge.

Finland Taps White Sea HELSINKI (AP)—The first highway leading to the White Sea on the far northern coast of Finland, has been completed. The road's terminus is Peleamo where a modern hotel with electric lighting and baths has been constructed.

Hood River—Square Deal Dairy reopened after undergoing improvements.

Heads Homemakers' Bureau



Julia Lee Wright, nationally known home economist, who conducts the Safeway Stores' Homemakers' Bureau. Miss Wright is shown at her desk in the headquarters of the Homemakers' Bureau.

TRAIL RESIDENTS PETITION SURVEY OF TILLER ROAD

Taxpayers of the Trail district to the number of 39 have presented a petition to the county court requesting that body to urge the state highway commission to order a survey of the Tiller-Trail road from the Jackson-Douglas county boundary line to the Crater Lake highway at Trail. The petition sets forth that while no funds are now available for construction of the road, the survey would expedite and put plans in order for the future.

The signers of the petition in exchange agree to deed to Jackson county right-of-way through their property, without cost. The main condition is that the survey be along the present lines or near it. Sentiment is strong in the Trail area for the construction of the road. It would provide employment.

Douglas county, by use of a special road district fund, and federal aid has completed a good portion of its part of the road.

Last fall a road district was formed to vote \$25,000 special road bonds for the road construction. This district embraced a large amount of territory, the eastern boundary line taking in the Red Bluff project of the California-Oregon Power company near Prospect. The measure was defeated overwhelmingly, at a special election.

PORTLAND—Bids opened for installing chlorinating apparatus in seven city swimming pools.

VALE—Vale Trading Co. sold grocery department to Halverson's Pure Food store.

CHECK SUSPECT RETURNED HERE TO FACE TRIAL

George C. Hall was bound over to the grand jury on \$1000 bail yesterday afternoon in justice court on a charge of passing a forged check on L. B. Hodgkins of the East Side Shell station May 6. Garrick King, also allegedly involved in the action, was recently sentenced in Portland to two years in prison on a charge of transporting a stolen automobile between states.

Hall was returned to Medford from Portland by Oscar W. Dumford, deputy sheriff.

Wm. Wagner pleaded not guilty to a charge of reckless driving when he appeared before Judge Glenn O. Taylor Monday afternoon, and the judge recommended the secretary of state's office suspend his driver's license for a period of 90 days.

The charge was filed by a state police officer, who said Wagner attempted to pass him on Blackwell hill when nearing the crest. Judge Taylor also recommended that Roland Merrifield's operator's license be suspended for 30 days on a charge of improper lights. Merrifield was arrested on West Main street at an early hour Sunday returning from the dance at Jacksonville.

Marshfield—Bids to be opened soon for construction of post office for which \$140,000 was appropriated.

Jefferson—Contract let for construction of Santiam river bridge here.

In Grants Pass Today—Paul Allen of this city is a business visitor in Grants Pass this afternoon.

AUSTRALIA FACES GRAVE CRISIS ON POLICY OF LANG

Labor Premier's Government Defaults Interest On Bonds — Court Refutes Claim New Law Invalid

SYDNEY (AP)—Perhaps the gravest crisis since federation on January 1, 1901, faces the Australian commonwealth.

Upon the way it is met and upon consequences of strong measures which are being invoked, may even depend the life of the union.

In two states, Tasmania and South Australia, secession is being preached openly.

In New South Wales armed guards have been placed about state funds to prevent their seizure by the federal authorities.

Bonds Start Trouble The crisis developed from the protests against the policies of J. T. Lang, labor party premier of New South Wales. His government last year defaulted interest on bonds held in Australia and on February 1, this year, defaulted interest on bonds held overseas, many of them in the United States.

The commonwealth government made good the default in the first case but this year has merely guaranteed collection, passing the "financial agreement enforcement act," which empowers the federal authorities to attach state funds and state tax revenue to meet defaulted services on state obligations.

Premier Lang answered this act by promptly removing state funds from the banks to the strong vaults of the state capitol. He set state troops to watch them.

The Australian high court disallowed his appeal that the new law was invalid and upheld the first judgment of \$24,000 pounds (about \$4,000,000 gold) made under his terms.

Federal Police Helpless The federal government then proclaimed attachment of the state's income tax revenue to get money for bondholders, but Premier Lang countered by ordering his tax collectors to withhold information from the federal authorities.

It is speculative how far Lang will go with his defiance of the Canberra government, headed by the new "national" premier, Joseph A. Lyons. If Lang does not alter his hitherto uncompromising stand, he may prove the reef upon which the federation will break up.

Resentment grows in other states at having to threaten their own budgets with withdrawals to make good the lapses of New South Wales.

The Australian commonwealth has six states—New South Wales, Victoria, South Australia, West Australia, Tasmania and Queensland. There are two territories, North Australia and Central Australia and a federal district at Canberra.

EARL W. SCOTT DIES AT HOME CENTRAL POINT

Earl W. Scott, resident of southern Oregon for the past 40 years, passed away at the home of his brother, Ernest Scott, in Central Point, at an early hour this morning, after an illness covering the past six months. Earl was born in Clay county, Iowa, March 21, 1878.

He came to southern Oregon with his parents in 1892, living here continuously since that time. He will be remembered by his many friends as the sexton of the Central Point cemetery for the past two years. He was a man of sterling qualities, a good neighbor and always willing to lend a hand to anyone. There are many friends to mourn his passing.

Mr. Scott leaves one son, Richard O. Scott of Rogue River, Oregon; three brothers, Ernest Scott of Central Point, Truman Scott of Hornbrook, Calif., John Scott of Perry, Oklahoma; four sisters, Mrs. Carrie Hamrick of Central Point, Mrs. Jane Duncan of Cottage Grove, Ore., Mrs. Adella Day of Bremerton, Wash., Mrs. Etta Thompson of Los Angeles.

He had been a member of Central Point lodge No. 193, I. O. O. F., for 20 years.

Funeral service will be conducted from the Peri Funeral home, June 16 at 2:00 p.m., Rev. D. E. Millard officiating. Central Point lodge No. 193 will have charge of the services at the grave in the Central Point cemetery.

GIBSON AND HERRIOT TALK DISARMAMENT

GENEVA, Switzerland, June 14.—(AP)—Hugh Gibson and Hugh R. Wilson, representing the United States at the disarmament conference, discussed American arms proposals today with Premier Herriot of France.

Later Mr. and Mrs. Gibson were hosts to Prime Minister Ramsay MacDonald and his daughter, Isabel, Sir John Simon, the British foreign secretary, and Lady Simon, at luncheon.

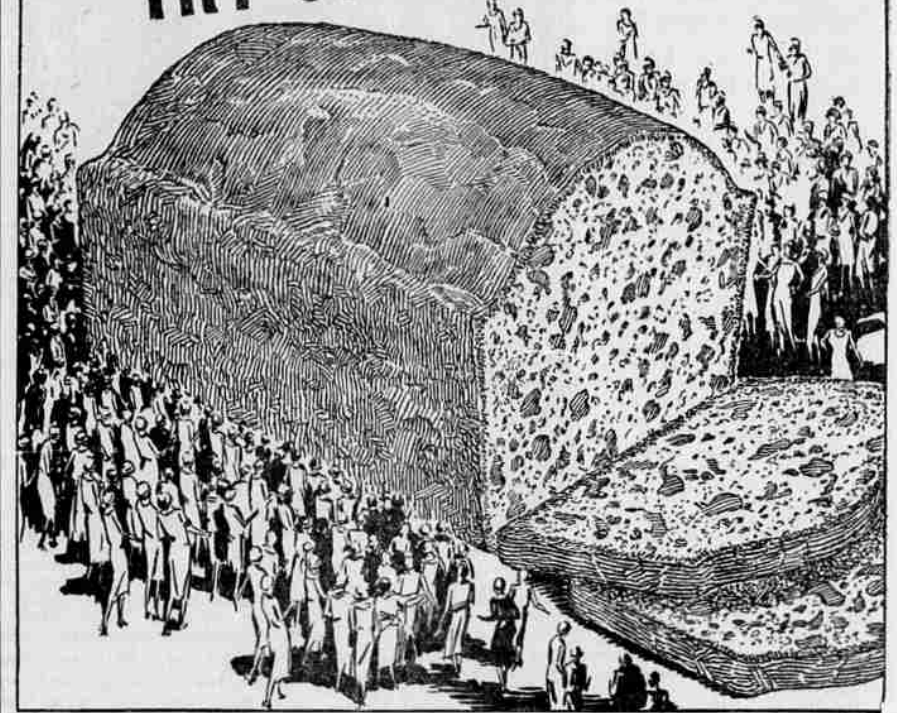
GARNER STAYS ABED TO REGAIN STRENGTH

WASHINGTON, June 14.—(AP)—Speaker Garner, free from fever for the first time since Saturday, remained in bed today to recuperate more rapidly from his attack of bronchitis.

He continues to hold short conferences with close friends on the congressional legislative situation.

Linen rags, strings, old netting, flax tow, and hemp are used as basic stocks by the French cigarette paper industry. An inland tea table containing 4011 pieces of various woods was made by a disabled war veteran in Portland, Ore. Portland.—Erection of steel superstructure on new \$1,126,000 federal building started by Poole & McGonigle, contractors.

TRY SOMETHING SWELL! TRY SOMETHING EASY!



CALUMET NUT BREAD IT'S SURE TO BE PERFECT WITH CALUMET'S DOUBLE-ACTION!

You can make this grand nut bread? . . . you bet you can! It's easy! Easy as mixing up muffins! Just use the recipe given here—and use Calumet, the Double-Acting Baking Powder. Then slice your loaf! Serve it! And when the crowd starts flattering you, remember this—to get such marvelous nut bread—to get that fragrant brownness—that lovely, even-grained texture—you must use Calumet.

Be bargain-wise—try Calumet! Remember that Calumet brings to your baking superlative success—complete satisfaction—every time. It prevents costly failures. Added to that, Calumet is reasonably priced. That's why, from every angle, Calumet is a real baking powder bargain. Calumet is a product of General Foods Corporation.

For Calumet acts twice—and there's the secret! In the mixing bowl, Calumet's first action begins. It starts the leavening. Then, in the oven, Calumet's second action gets on the job. Slowly, steadily, this new fresh rising swells up and up—gently lifting the better, holding it high and light until your loaf is tenderly baked. And thanks to this same Double-Action, all your Calumet cakes and quick breads are bound to be perfectly leavened—beautifully baked!

- 3 cups sifted flour
- 3 tablespoons butter or other shortening
- 3 teaspoons Calumet Baking Powder
- 1 cup sugar
- 1 teaspoon salt
- 1 egg, well beaten
- 1 cup nut meats, chopped
- 1 1/4 cups milk

CALUMET THE DOUBLE-ACTING BAKING POWDER. GET PROOF! See Calumet act TWICE! These pictures illustrate the famous Calumet Double-Action Test. Try it! Full, easy directions inside every can.



HUMDINGER STAR USES HONEY MAIDS

"When the director yells 'shoot', a star has to be ready for the terrific strain of the lot. So my advice to ambitious actors is—'Eat lots of Honey Maids'."

Honey Maids renew energy. These golden, flavorful, toasted squares are filled with the health-building nourishment of sun-ripened wheat. Nut-like in flavor and sweetened just enough with fine honey. Their crisp crunchiness helps make teeth stronger.

Save money—buy thrift packages. Grown-ups like Honey Maids too, with milk, tea or chocolate. They are always fresh. We bake them for you every day in our Pacific Coast bakeries nearby, and seal their freshness and goodness in wax wrappings. Be sure your grocer gives you Honey Maids in the green box. Get the big money-saving package today.

NATIONAL BISCUIT COMPANY "Uneseda Bakers" Honey Maid Grahams

Holsum Puts an End to Hot Weather Baking

Holsum Is the Finest Bread the Market Affords—and That's Why Fluhrer's HOLSUM Will Be Used at the SAFEWAY COOKING SCHOOL

Enjoy—Margaret Lenore COATES at the Fox Rialto Wednesday Thursday and Friday

This finer, richer loaf is made by a special method with the finest materials money can buy. That's why Fluhrer's Holsum has that unequalled flavor and lightness which has made it the largest selling brand of bread in Southern Oregon!