

Space Scientists May Analyze Moon's Surface

By JOSEPH L. MYLER

Washington — (AP) — Half a century ago a British physicist discovered in the tiny hearts of atoms a principle which now makes it possible for space scientists to analyze the surface of the moon before men go there.

The same principle, operating in a rocket-borne device weighing less than five pounds could be used to study the chemistry of planetary surfaces.

The story is told in a University of Chicago report on "The Scientific Imagination at Work." The story traces the evolution of an idea from an English laboratory 50 years ago to an application on the moon.

In 1911, the British physicist, Lord Rutherford, produced the first unassailable evidence that every atom, of whatever element, has a heart, or nucleus.

Occasionally Bounced

In the course of his experiments, Rutherford discovered that charged particles aimed at a sheet of metal foil occasionally bounced. Most of the particles went right on through the thin foil. But others hit something that made them carom. This "something" was the atom's dense and weighty nucleus.

It developed that each element in the roster of matter produced a characteristic pattern in the energy and intensity of particles rebounding away from it.

Thus the way a particle bounced showed whether its target was an oxygen nucleus, say, or the core of a silicon atom. This characteristic came to be known as "Rutherford scattering" and it suggested a relatively simple way of identifying chemical elements.

Chemical Information
Dr. Anthony Turkevich of the University of Chicago has proposed a device, based on Rutherford's discovery, for getting chemical information about the moon's surface material.

This information, the university said, will enable space scientists to determine whether human life can be supported on the moon by processing lunar material to obtain the oxygen and other elements necessary for survival.

Turkevich's robot analyzer would weigh under five pounds and fit easily into a shoe box. It may be put to work in the space agency's survey program to land instruments gently on the moon in 1963-64.

No Moving Parts

It would contain no moving parts, no chemical reagents, no test tubes. A pencil-thin piece of radioactive material would fire a beam of alpha particles—positively charged nuclei of helium atoms—at the moon dust or rock on which the device rested.

A detecting material would record the energy and intensity of the rebounding particles. Turkevich said this would show without fail the existence of such elements as carbon, oxygen, or silicon to a depth of a few millionths of an inch in the moon's surface. Heavier elements would be indicated but with somewhat less detail.

Results would be "telemetered" to earth by radio.

1,000 Musicians Expected on Campus

Ashland — More than 1,000 high school musicians will descend on the Southern Oregon college campus Saturday, April 14, for the annual senior high school large group music contest.

Dr. Herbert Cecil and Oscar Bjorlie, assistant professors of music and cochairmen of the event, have announced.

Participating in the contest will be bands, orchestras, and choruses from Ashland, Klamath Falls, Glendale, Medford, Sutherlin, Roseburg, La Grange, Riddle, Sweet Home, Days Creek, and Myrtle Creek.

The choral events will be held in Churchill auditorium starting at 9 a.m. and the instrumental groups will perform in the college gymnasium beginning at 8 a.m. There will be no admission charge and the public is invited to attend.

Judges for the contest will be Helen McPherson, Marshfield High school; Don Glicksler, Willamette University; Paschal Monck, Sacramento State college; Frank Leuck, Marshfield High school; Jack Browne, Chico State college; and Norman Hunt, Sacramento State college.



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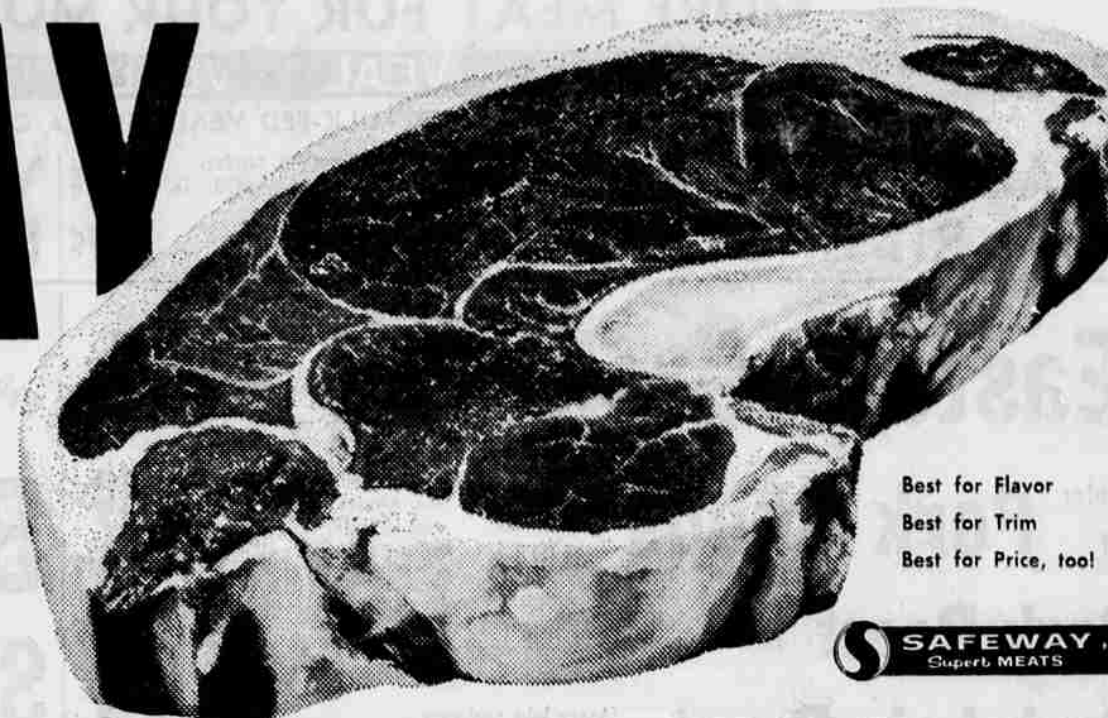
Asparagus New Crops 2 lbs. **49^c**

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Pickin' Pears

By WALTER TOWNSEND
Edward L. Robinson, 63, known as "Eddie," is one of the writers at the domestic. He has a work room in the new hobby shop, where he begins his writing at 9 a.m., five days a week.

Before World War I, he was on the Mexican border in the U.S. cavalry, riding hard after Villa. Then Robinson, under the command of "Hard-boiled" Smith, went to France in '17, and was attached to the "Old Indianhead" (Second) Division.

He served on three battlefronts: the Champagne, the St. Mehiel, and the Meuse Argonne. For a short duration he was a prisoner at Coblenz, Germany. "It was an old, old building or rather dungeon," Robinson said, "built during the time of the Middle Ages."

Robinson at present is engaged in writing a review of one of Jack London's novels—Martin Eden.

In connection with National Library Week, Colonel Meiring gave a travel talk Monday in the theater on Thailand, India, Hong Kong, and Tokyo. His slides were well received and showed many exciting cities and people.

Now that the bowling season is ended Paul C. Bethel, chief of recreation, advocates that senior members particularly take up horseshoe pitching. Several horseshoe courts are located back of and around the theater building.

Pending sale of the old Salvation Army church at Fourth and Bartlett sts., the Sunday school class of adults met Sunday in Redmen's hall, where pictures of Indians, canoes, tents strike the eye.

These temporary quarters were donated by the Redmen lodge at Fourth and Apple sts. Paintings of great animals at the edge of lakes and stately dark trees dominate the scene.

Captain Ricken called attention to William Booth's six resolutions, the second one being, "That I will as much as possible avoid all that babbling and idle talking in which I have lately so sinfully indulged."

The birthday of William Booth was celebrated on Tuesday by the Salvation Army throughout the world. Including visiting members from White City, there were 80 present at Sunday school. The adults are now divided into two sections, Mrs. Bandy teaching one, and Mrs. Wenzel the other.

Rita Holmes took a bus load of White City members to the 30 Plus club Friday. After noon potluck dinner, formal ceremonies of the meeting began with salute to the flag and a song, "God Bless America."

Hanna Sirus gave the secretary's report. The president, Mrs. Bowker, welcomed all visitors, and asked them to sign the guest book. She instructed that cards be sent to sick members, and thanked those who came early to set up the tables. She urged a liberal donation to the cancer fund.

The meeting was closed with a prayer song and a nickel march. Mrs. Martha McGregory, who had been ill for three months, was welcomed at the meeting.

Mr. Snow of White City made a donation to the club for the cancer fund. He urged that the other men present donate. After which he sang a Texas cowboy song that was relating to the group.

Mrs. Frank Roberts, who had been ill for six weeks at Sacred Heart, was at the meeting and enjoyed the occasion where a count showed 92 were present.

White City visitors brought the main pollack dish. The 30 Plus in Medford brought pies, cakes, salads and incidentals to make up an elaborate dinner for the large crowd. Long tables in the hall were covered with linens and decorated with spring flowers. Music for dancing was supplied by Alexander's Hawaiian band.

Among the group volunteers who sang were Pearl Austin and Edith Southwick, accompanied by Maude Arnold at piano. Mrs. Maroney entertained with humorous stories.

Next Wednesday there will be a card party at the Girls' Community club at 7:30 p.m., it was announced.

Corvallis Boys Admit Vandalism
Corvallis — (AP) — Three 12-year-old boys have been identified as the persons who turned over 48 headstones at the Odd Fellows cemetery here, the Benton county sheriff's office said Wednesday.

Two of the boys admitted the act to Chief Deputy Ed Ream after confessing to their parents. They implicated the third boy.

Ream said the boys' fathers would try to repair as much of the damage as possible. The boys were turned over to the county juvenile office.