

Bijou

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Singing Kewpie Doll

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Monologue

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A Great Comedy Sketch

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By
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9--Big Amateur Stunts--9

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TWO SHOWS NIGHTLY, 7:15 and 8:45 o'clock—Prices: 10c, 20c, 30c. Reserved Seats 50c.

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SCIENTIFIC DATA ON RADIUM, THE MINERAL THAT HOLDS THE PUBLIC EYE



Mme. Curie, credited with being the discoverer of radium, shown working in her laboratory.

Probably no other mineral is mined which has so large a hold on public attention and at the same time has so small a total monetary value as the uranium minerals. This interest, of course, due not to the mineral as such, nor the uranium they contain, but to the accompanying radium, which is found only with uranium. Hitherto the interest in radium, though lively, has been largely academic on account of the marvelous qualities which it displays when compared with better-known elements. Toward the end of 1913, however, public interest became almost feverish, owing to the apparent cures of cancer wrought by the application of the gamma rays given off by radium.

Uranium minerals were produced in commercial quantity in the United States in 1913, as shown by preliminary statistics gathered by Frank L. Hess, of the United States Geological Survey, only in Colorado and Utah, and although during the year some pitchblende was mined in Colorado in the Belcher & Calhoun mines, only a few pounds were sold, though 50 dry tons of low-grade material carrying 1.49 per cent uranium oxide (U₃O₈) was shipped to France from the Kirk mine. This had been mined in a previous year. Carnotite, a yellow powdery or waxy mineral found in the sandstones of the high plateau between the Rock Mountains of Colorado and the San Rafael Swell of Utah, south of the Book Cliffs, furnished the whole production.

Carnotite, as the word is ordinarily used, is a potash or lime uranium vanadate. Several vanadium minerals occur with the carnotite, so that in mining for uranium a great deal of vanadium is also obtained. At Newmire, San Miguel County, Colo., one of the vanadium minerals, roscoelite, occurs practically free from uranium and is worked for vanadium alone.

Nearly 50 Per Cent Increase in Output.
The total mine shipments of uranium and vanadium, as shown by preliminary figures, were equal to 2,140 tons of dry ore, carrying an equivalent of 38 tons of uranium oxide. The vanadium in carnotite ores shipped, together with that which is estimated to have been produced from the Newmire district, was equivalent to 914 tons of vanadium oxide. These quantities are equal to about 32.3 tons of metallic uranium and 412 tons of metallic vanadium.

The Bureau of Mines has determined that carnotite carries about 90 per cent of even a little more of the theoretical quantity of radium in equilibrium with uranium, which, according to Rutherford ("Radioactive Substances and their Radiations," p. 16), is equal to about 1 gram in 3,000 kilograms of uranium. Assuming that 90 per cent of the radium is recoverable, this would give in the output of 1913 an equivalent of about 8.73 grams of metallic radium, or 16.40 grams of hydrous radium bromide, worth, at \$120 a milligram of metallic radium, about \$1,055,000. The total value of the carnotite ores sold was about \$142,000, which represents the uranium value only, as little was paid for the vanadium content and the figures for these receipts are not yet in hand.

The production of the year was the largest ever made, according to the Geological Survey figures, that for 1912 being equivalent to 26 short tons of uranium oxide (22 tons of the metal), and that for 1911 being equivalent to 25 tons of uranium oxide (21.2 tons of the metal)—an increase of nearly 50 per cent for 1913.

Large Proportion of Ores Exported.
Of the quantity produced, apparently 19.25 tons of uranium oxide containing the equivalent of 8.3 grams of hydrous radium bromide, was shipped to Europe, and 18.75 tons, containing the equivalent of 8.1 grams of hydrous radium bromide, was retained in this country, although in tonnage the quantity retained in this country, 1.198 tons, was larger than that shipped to Europe, which was apparently 942 tons. One of the principal producers for foreign trade did little work for more than half the year, owing, it is reported, to the fact that its factory in Liverpool had not been com-

pleted. Had the factory come into operation sooner the exports would have been considerably larger.

A prominent feature of uranium and vanadium production during the year was the change in method of payment by American buyers; who no longer paid for the vanadium content in the ore but bought it on the basis of the uranium oxide content alone, though they received payment for the vanadium abroad. However, the miner received more or less compensation in a higher price for the uranium oxide he sold. Prices varied greatly and returns to the survey show that the price per pound for contained uranium oxide ranged from \$1 for ores carrying 0.6 per cent uranium oxide to \$4.60 for one lot carrying 3.15 per cent uranium oxide and 4.82 per cent vanadium oxide.

The demand for carnotite at increasing prices caused a large amount of prospecting, and the carnotite-bearing area was shown to extend from the Paradox country westward into the Dry Valley region of Utah, lying between Monticello and the La Sal Mountains. Farther west and south deposits of carnotite were found on Crescent and Trachyte creeks in the Henry Mountains, and also southwest of the mountains.

Geologic Investigation of Deposits.

During the fall a geologic reconnaissance of the uranium and vanadium deposits of Utah was made by Frank L. Hess and B. S. Butler, of the United States Geological Survey. They covered the territory lying between the Wyoming line and the south side of the Henry Mountains, and east of the San Rafael Swell. The deposits as shown by the outcrops are nearly all in small pockets, part of which are comparatively rich. All the newly found localities are far from railroad and the hope for commercial production from them lies in concentration on the ground by some cheap process, and many experiments are being carried on to develop such a process. Toward the end of the year steps taken toward the erection of a concentration plant in Dry Valley, 15 miles north of Monticello. A plant was put up on Mesa Creek, Colo., and another was said to be in course of erection in the Gateway district. A preliminary report on the uranium and vanadium deposits of Utah will probably be issued during the spring.

The Standard Chemical Co. actively produced radium at its plant at Canonsburg, Pa., and the Radium Co. of America established a plant and did preliminary work at Sellersville, Pa.

MOSQUITO ELIMINATION IN CUBA

The demand for mosquito netting and canopies has fallen off to some extent within the past few years throughout the island of Cuba, owing to the fact that the people in general are gradually coming to realize the necessity, from a hygienic standpoint, of preventing the breeding of mosquitoes in and near their residences. In all of the larger cities and towns there is a periodical house-to-house inspection by representatives of the sanitary department to discover if there are mosquitoes breeding in deposits of water within the houses or anywhere in the surroundings. As occupants of the houses are fined if mosquito larvae are found during these inspections, the result has been a great diminution of these pests and a corresponding lack of necessity for mosquito nettings and canopies. It is my observation that here in Havana nettings are not now generally used on the beds. There is, however, still some demand for these articles, though very little for the canopies made up, as it is cheaper and usually more desirable to buy the netting and make at home a canopy suitable for the bed for which it is intended.

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ANGELENAN VISITING HONOLULU ON TOUR AROUND THE WORLD

C. B. Combe of Coronado, California, is a visitor in Honolulu en route on a tour of the world, having arrived in this city on the Sierra Monday morning, accompanied by Mrs. Combe. Mr. Combe has been instructed by his physician to take a lengthy tour on account of injuries which he received at the recent railroad accident near Los Angeles. He intends visiting Sydney, Naples, Genoa, Paris and England, returning to New York and visiting Saratoga, Niagara Falls and Toronto. He is well pleased with the appearance of Honolulu and has been sightseeing since his arrival. Mr. Combe and his wife will leave Honolulu on the 13th on the Ventura.

BIRTHS

MAERTENS—In Honolulu, March 31, 1914, to Mr. and Mrs. Carl A. G. Maertens, a son.

TRANSFER OF WATER WORKS-SEWER SYSTEM NEXT SUPERVISORIAL DUTY

Now that the retrenchment business of the board of supervisors is over for the time being, the city fathers will turn their attention to the work of arranging for the transfer of the water and sewer systems from the territory to the city and county.

This evening the board of supervisors will meet, the special business being this pending transfer. They are not only called upon to meet the new financial situation it develops, but numerous ordinances are required to be passed to take the place of the territorial statutes relating to the two systems, the statutes becoming void with the transfer. According to the plan made some months ago, the systems were to be taken over the first of April. This was found impossible. It will be probably the first of June before the trans-

fer is actually made. John W. Caldwell, superintendent of public works, has completed a very lengthy report on the property and condition and expenses of the water and sewer systems, which will be used by the board in studying up the problem before them.

Ladies' night at Y. M. C. A. Cafeteria tonight, 8:00-7:00. Music by Kaal—advertisement.

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Wild's Parquet Inlaid Linoleum

is recognized as the most satisfactory floor covering for offices, showrooms, etc. It looks just like wood parquetry and the patterns being inlaid (not surface prints) retain their newness through years of hard usage. This flooring is noiseless. It is perfectly sanitary, can be cleaned easily with soap and water; costs less than hard wood and never requires "doing over"

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(Let us measure your rooms and give you an estimate of cost. We can furnish experienced workmen to lay the Linoleum.)