

MILLIONS SPENT ON COPPER MOUNT

Guggenheims Find Deposits in Chili "Richer Than Gold Mines of Incas."

ARE PREPARING TO MARKET ORE

Ships and Railroads Are Built by Them in Scheme of Development of Mine.

New York—Richer by far than the sources from which the Incas and Aztecs drew their supply of gold is the way an American mining engineer who recently returned from South America described the copper deposits which have been opened up at Chuquibambilla, Peru, by the Chuquibambilla Company, an American corporation controlled by the Guggenheim interests.

The description given by the engineer of the mountain of almost pure copper to market which the Guggenheims are spending millions of dollars in steamships, mining equipment, railroads and port equipment, reads like a tale from the Arabian Nights. The operations entailed the overcoming of what looked to be practically insurmountable difficulties.

Back of the story of the Guggenheims' achievements in opening up the Chuquibambilla mine lies the yet stranger tale of how the presence of the rich copper deposits had been known for 50 years before the news reached the Guggenheims. That a mountain composed wholly of copper ore which could be scooped up by steam shovels, the ore assaying a higher percentage of copper than the ore of any mine in the United States, really existed was scoffed at. The Guggenheims took it seriously, sent men to investigate the matter and on the receipt of their reports immediately made arrangements to secretly obtain possession of the concession.

One hundred million tons is the estimate given of the amount of copper which the mountain contains. It is situated about 200 kilometers inland from the port of Antofagasta. The country is extremely mountainous and the copper mountain itself is at an elevation of 9,500 feet above the sea level. The actual work on the preparations for getting the ore to market began two years ago. First of all it was necessary to build a railroad from Antofagasta to the mine. The railroad was the most difficult of all the problems which faced the engineers. The road soon became an accomplished fact, however, and it is now in operation.

Long before the railroad was completed contracts were let in Germany for the machinery which is to extract the copper from the ore. An entirely new process never before used in the handling of copper ore will be introduced at Chuquibambilla. It is known as the "leaching" process, by which the copper is extracted by means of electricity.

Although the war held up the delivery of much of the mining machinery, necessitating the purchase of some of the equipment in this country, the mine will be in full operation soon. After the copper has been extracted it will be cast into ingots, transported on the private railroad to Antofagasta, where it will be put on board steamships for the markets of the world.

It is estimated that more than \$10,000,000 has already been spent in equipment for getting the copper to the coast. The outlay is still incomplete, however, as Antofagasta is to be abandoned as a port by the Guggenheims in favor of Mejillones, located a short distance to the north of Antofagasta.

British and German interests are competing strongly with Americans in their efforts to obtain the most desirable concessions, but the Americans have taken the lead in developing such concessions as have been given out by the Government.

WOMAN COLLECTS \$5,000 DIMES

Flour Sack Necessary When Husband Took Time to Bank. Big Laurel, Va.—Mrs. Clara Kilgore, wife of Frank Kilgore, a farmer of this place, has been busy during the last ten years collecting dimes. Mrs. Kilgore began her odd collection ten years ago while selling vegetables in Glamorgan, a mining camp near her home. She says a lady gave her \$1 in dimes in payment for some vegetables and this suggested the idea of seeing how

HERE'S GERMAN HEAD OF TURK MEDICAL STAFF ASTRIDE CAMEL IN THE DESERT



Dr. Ingells, the German doctor in charge of the Turkish medical staff, is seen here in the desert on the back of Hadahin, the biggest camel in the Turkish army.

many she could collect in a month. At the end of the month she had thirty and then she decided to keep on with her collection. She prepared a box and each time that came into her possession she dropped into the box. She had to make a larger box five times in the ten years. When her collection consisted of 5,000 dimes Mr. Kilgore took them to a bank to deposit. He had to use a flour sack in which to carry the \$500 in 10-cent pieces.

MICHIGAN NEWS

ADVISES AGAINST BIG WHEAT CROPS

M. A. C. Says Michigan Farmers Shouldn't Gamble on War's Duration. Plant Only Usual Amount and Adhere to Fixed Rotations.

East Lansing, Mich.—Authorities at the Michigan Agricultural college are not urging farmers to plant any more than the usual amount of wheat or corn this spring, despite the fact that conditions in Europe may continue to keep European farmers out of the market. Michigan growers are being advised not to break up their scheme of crop rotations, because the dependency of crop prices upon the cessation of war is believed to be too much of a gamble.

"We are not recommending the planting of unusual amounts of wheat or corn," said Professor Shoemaker, of the farm crops department at the college. "It will be safest for farmers to adhere to their fixed rotations. If the war were to cease this summer, it is said, prices probably would drop heavily and might threaten with ruin the man who held unusually large crops of wheat or corn."

START SURVEY OF NEW TRANS-STATE ELECTRIC

Muskegon, Mich.—With C. S. Gamble, ex-city engineer, and James L. Smith, secretary of the Muskegon-Cassopolis-Saginaw Interurban Electric Co., in Muskegon county, actual work on making the survey for the proposed Muskegon electric railway has been started. Within a few weeks the first leg of the new line from Muskegon to Ithaca, will be surveyed and a full report made.

With a survey under way and terminal facilities in Muskegon under way, the proposed road is taking tangible form. Voters in each of the 15 townships in which new franchises for the road were asked granted them by big majorities. These townships are located in Muskegon, Newaygo, Kent and Mecosta counties. The franchise gives until 1918 to complete the road.

WILL SUPPRESS FAKE CHARITY SOLICITORS

Lansing, Mich.—A bill has been passed, the purpose of which is to suppress fake charitable organizations and institutions. It provides that all organizations, institutions and associations organized for charitable purposes and which publicly solicit and receive donations, must file with the state board of charities and corrections a statement giving full information as to what charitable work they are doing, as well as the names of the principal officers and the solicitors. When the statement satisfies the board that the charity is a worthy one and that donations are not diverted from the purposes for which the aid is given, the board will issue an annual license. Soliciting without such a license will render the offender liable to a fine of \$100 to \$500 or six months in the county jail. Local organizations and institutions may, however, solicit funds in the county where they are located without a license.

Missing Kalamazoo Court Clerk Lived High On \$75 a Month Salary

Kalamazoo, Mich.—Although his salary was only \$75 a month, Harry Irvine, municipal court clerk, who is missing, lived as though he had an income of \$75 a day. Irvine kept two big, high-powered automobiles, and left the city in one of them after he had learned that auditors were at work on his books.

Not only did he keep two automobiles, but he lived in a fine home in Kalamazoo and maintained a big summer place at Gull Lake, where he spent each summer with his family. Moreover, anything was ever said about his personal affairs Irvine always explained that he had a big income from real estate business he did after hours. Since his disappearance, officers have learned that not only are his court accounts short several thousand dollars, but that there are nearly two dozen men in Kalamazoo from whom he has secured \$200 or \$300 each at various times.

DECLARE PEACH CROP RUINED BY FROST

Lapeer, Mich.—That freezing weather of recent date has ruined the peach crop in this vicinity is the opinion of several fruit growers here. The heavy frosts have nipped the tender buds and at the most only one-third of a crop is to be expected, say the experts.

DETECT LIARS BY SCIENTIFIC TEST

Dr. Louisa Burns Tells Osteopaths Action of Pulse is Bound to Betray Them.

IS USED FOR DIAGNOSIS ALSO

She is Certain She Can Find Out the Truth From Witness in Criminal Cases.

New York—The man isn't born who can tell a lie under close observation, of physiological experts without an increase in the pressure of the blood, according to a statement made by Dr. Louisa Burns of the A. T. Still Research Institute of Chicago, at the final meeting of the sixteenth annual convention of the New York Osteopathic Society. Dr. Burns has drawn her conclusions from a long series of experiments conducted in her laboratory.

It was pointed out to the 200 osteopaths by Dr. Burns that any habitual liar could tell an untruth without betraying the slightest sign of deceit in the expression of his face or the movement of his body. But the action of the pulse, she said, was far beyond the control even of the best liar. She explained that his was so because the pulse or pressure of blood was influenced chiefly by the change of emotions, and the most finished liar, she observed, had sometimes the strongest emotions.

"The action of the blood pressure is an indicator to the person who is accustomed to work with it. By watching it you are able to get the true history of a case, even in spite of the reticence of the patient, in the same way in which you are able to find a hidden object in the game of hide and seek, when your search is guided to ward that hidden thing by the warm

HER SPOUSE IS NEW ADMIRAL OF BRITAIN



Mrs. J. Cochran and her daughter Mary.

When Mrs. J. Cochran, who arrived in San Francisco from the Orient a few days ago with her five-year-old daughter Mary, heard from her husband for the first time in nearly six months, she learned that he had been made an admiral in the British navy. She saw her husband last at the outbreak of the war, when he was commander of the battleship Yamoth, then patrolling the Pacific.

FLYING FISH SHOWS ITS SKILL

Does Occasional Stunts While Voyagers Wait for Mail. Winsted, Conn.—A flying fish, a specimen of the trout family, taken from a stream in Marlbad by Elmer Parsons of Winsted, is attracting attention in the postoffice there, where it is on exhibition in a long, narrow tank of water. The fish, unless a cover is kept on the tank, takes occasional flights. It attains its large fins like a wing, thus obtaining locomotive power, it, too.

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THE HOLY CITY

Thirty men, red-eyed and disheveled, lined up before a judge of the San Francisco police court. It was the regular morning company of "drunks and disorderlies." Some were old and hardened, others young, their heads in shame. Just as the morning disorderly tendency of the bringing in of the prisoners quieted down a strange thing happened. A strong, clear voice from below began singing.

"Last night as I lay sleeping, There came a dream so fair, 'Last night it had been for them all a nightmare or a drunken stupor. The song was a contrast to the horrible fact that no one could fall to a sudden shock at the thought the song suggested."

"I stood in old Jerusalem, Beside the Temple there," the song went on. The judge had paused. He made a quiet inquiry. A former member of a famous opera company, known all over the country, was awaiting trial for forgery. It was he who was singing in his cell.

Meantime the song went on, and every man in the line showed emotion. One or two dropped on their knees; one boy, at the end of the line, after a desperate effort at self-control, leaned against the wall, buried his face against his folded arms, and sobbed, "Oh, mother, mother!"

The judge, coming to the very heart of the men who heard, and the song will welling his way through the court room blended in the hush.

At length one man protested. "I said I was singing in my cell. I submit to this? We're here to take our punishment, but this—" He, too, began to sob.

It was impossible to proceed with the business of the court, yet the judge gave no order to stop the song. The police sergeant, after an effort to keep the men in line stepped back and waited with the rest. The song moved on to its climax.

"Jerusalem, Jerusalem! Sigh for the night is over! Hosanna in the highest! Hosanna for evermore!"

In an ecstasy of melody the last words rang out, and then there was silence. The judge looked into the faces of the men before him. There was not one man who had not been touched by the song, not one in whom better impulse was not stirred. He did not call the cases singly—a kind word of advice, and he dismissed them all. A man was fined on sentence to the workhouse that morning. The song had done more good than punishment could possibly have accomplished. —Youth's Companion.



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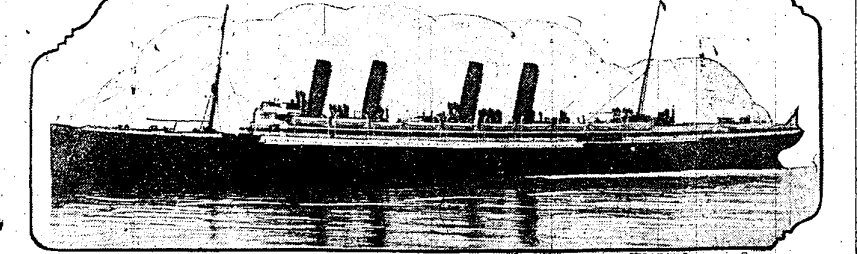
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HERE'S LAST OF GERMAN SEA RAIDERS THAT FINDS HAVEN IN NEWPORT NEWS



The last of the German sea raiders, the converted cruiser Kronprinz Wilhelm, arrived Sunday at Newport News, Va., and here she will remain until the end of the war. Many times reported destroyed, the former North German Lloyd liner had evaded hostile warships for eight months while she sent fourteen merchantmen to the bottom.