

DECLARES MICROBES PRODUCERS OF COPPER

Geological Survey Shows That Metal Comes From Action of Bacilli

Copper is ordinarily thought of as one of our most valuable metals won from the earth through the skill of the miner and made into usable form by the metallurgist; but according to a recent report of the Department of the Interior, it now appears that metallic copper may be deposited—in relatively small quantities to be sure—through the action of bacteria.

During a survey of the region near Cooke, Montana, by the Geological Survey, spongy masses of native copper were found in the black muck of a bog. Several bodies of pyritic copper ore crop out about half a mile above the bog. This ore weathers rapidly, and the copper is removed from it in solution as cupric sulphate. Redeposition of the copper as native metal only in the black muck and in none of the gravels and sands in the vicinity was ample proof that something in the muck had caused the precipitation of metallic copper from the sulphate solution, but the identity of the precipitating agent remained to be determined. Consideration of inorganic processes was discouraging, but preliminary experiments with the copper-bearing muck led to more carefully controlled experiments which proved beyond question that the copper was precipitated in some detail in Bulletin 795-C, of the Geological Survey—"Organic Precipitation of Metallic Copper," by T. S. Lovering.

SANDWICH IS DEVISED BY SCHOOL PRINCIPAL

Impossible as it may seem in this age of progress, a new kind of sandwich has been discovered. It's the Alvarado and is guaranteed by Miss Farmer's School of Cookery, where it was first produced, to perform all the functions of the old fashioned club sandwich and even more. Miss Alice Bradley, principal of the school, discloses the secret of the new discovery for the first time in the Woman's Home Companion. This is it:

For each person, make a nest of lettuce leaves on a serving platter and place a slice of fresh toast, buttered on one side upon the lettuce. Place a hot fried egg and two slices of crisp bacon upon the toast. Cover with a slice of white meat of chicken and with three slices of tomato, cover garnish with a dill pickle laid cross-wise on the toast.

ROCHELLE TO HAVE ROAD CELEBRATION

OPEN MERIDIAN HIGHWAY

Marks Completion of This Important Link in State Road System; To Be Held October 6

Governor Small, Col. C. R. Miller, director, Department of Public Works and Buildings, and Frank T. Sheets, chief highway engineer, together with other state officials, have received invitations to attend the celebration to be staged at Rochelle on Thursday, Oct. 6, to commemorate the opening of the Meridian highway.

The celebration plans are in the hands of the Rochelle American Legion, leading business men and citizens. An effort will be made to bring to the city many thousands both from Illinois and adjoining states because of the importance of the occasion, making the gathering one of the largest hard road demonstrations ever held in the state.

Rochelle at Junction

Selection of Rochelle as the point for the holding of this celebration comes from the fact that city lies at the junction of the two best known national highways—the Lincoln highway, stretching from the Atlantic to the Pacific, and the Meridian highway touching the shores of Lake Superior with its northern end, while the southern reaches the Gulf of Mexico.

Because of its location it is accepted that more tourists will pass through Rochelle annually than any other city in the state of Illinois.

Six states are crossed by the Meridian highway, practically 400 miles of which passed through the center of Illinois, being known for the greater part of the way as Route 2. States crossed are Wisconsin, Illinois, Kentucky, Tennessee, Mississippi and Alabama.

Working Out Plans

The celebration planned to mark the completion of the Meridian highway will be known officially as the "Rochelle Highways Jubilee." Tentative plans call for an all-day celebration, with special features for the evening. Arrangements have already been completed for a program which will properly present the hard road program of Illinois and the important part which this has played in the development of the state under Governor Small.

In addition to the speaking program several bands have already been engaged for the occasion, together with various attractions tending to make the occasion one never to be forgotten. In the evening a dance will be held on the pavement.

Work on the remaining link of this important highway is going forward at a rapid pace. Some weeks ago it was announced the last of the cement would be spread by September 15, but if the pace of the past few weeks is maintained work will be completed before that date.

CHASES MAN OUT OF OFFICE WITH PISTOL

Stranger Enters Threateningly and Dr. Roberts Proves Equal to Emergency

Dr. H. B. Roberts by presence of mind and prompt action in emergency probably saved himself from attack Friday when a man, whom the police report was named Carl Hansen of Racine, entered his office uttering threats and started his hand toward his hip pocket as though about to draw a gun. Dr. Roberts quickly reached into his desk and produced a pistol, and the man fled. The police learn that the man had been sent to the physician's office for an examination for a position as a gate tender on a railroad. They are investigating the man's condition, but so far have not located him.

SEVERAL ACCIDENTS REPORTED; NONE BAD

Girl is Slightly Hurt in Crash; No Serious Injuries in Last Week-End

Two automobiles driven by Chicago parties crashed in head-on collision Saturday at the corner of Sheridan road and Cedar avenue. A car driven by J. M. Garwan, Chicago, was going south, and a machine driven by Louis Gross, Chicago, was going north. A little girl in the Gross car was slightly cut by broken glass, but they proceeded on their way. One of the cars was badly damaged. Several other minor auto accidents over the week-end are reported by the police, in none of which was anyone injured.

LOTS IN A NAME

"All I have to do with my high-toned daughter is to kid her along," mused the diplomatic Mrs. Applegate. "If I ask her to do 'house-work' she glares at me, but she'll mop the floors and wash the windows if I call it 'domestic science.'"—Farm and Fireside.

Anyway if our helpless men fall into the river nowadays, there is usually some powerful girl swimmer near by who can save them.

LOCAL AND PERSONAL NEWS

Mrs. Arthur Jerrems and Mrs. S. Mertens will entertain at a golf luncheon at the Exmoor Country club on Friday.

Mrs. W. B. Egan of Hawthorne lane returned Sunday from a two weeks visit in the east.

Mr. and Mrs. D. S. Boynton of Hawthorne lane, Mr. and Mrs. Irving Randall of Linden Park place, Mr. and Mrs. Sellar Bullard of Orchard lane and Mr. and Mrs. Ralph A. Bard of N. St. Johns avenue will spend the week end at Ephriam, Wis. at a house party as the guests of Mr. and Mrs. Roger Vail and Mr. and Mrs. Carleton Vail.

Miss Ruth Schonthal of Rice street, Ravinia, entered the Evanston hospital on Monday where she will take up the nurses training course.

Miss Winifred Nichol, teacher at Lincoln school gave a picnic on her lawn on Monday on Wilmot road.

Mr. and Mrs. E. Eckhart and Mr. Simon Sildorf of Benson, Ill., were the guests of Mr. and Mrs. J. S. Bremer of S. Green Bay road.

Mr. and Mrs. C. Waterman and Henry Waterman and Mrs. Marshall of Plato Center, Ill., were the guests of Mr. and Mrs. F. C. Bremer of Oakwood avenue on Thursday.

Mr. and Mrs. H. O'Flaherty and Alice Curley of Prairie avenue spent Monday at Gages Lake, Ill.

Mrs. S. T. Rebling of S. Green Bay road entertained a few women on Wednesday last at a pot-luck luncheon at her home.

Mrs. William Drake and daughter, Sylvia, of Laurel avenue, returned Saturday from a ten days visit in northern Michigan.

Lydia Garling of N. St. Johns avenue spent the holidays in Channel Lake, Wis. Her sister, Marion Garling, spent the week-end in Hinsdale and Downers Grove, Ill.

The directors of the Woman's Civic club of Ravinia met at the Village house, in Ravinia on Wednesday. Plans of the year were discussed, which was followed by a social hour.

Mrs. Oscar Schmidley of N. Second street, returned Monday from a week's visit in Wisconsin.

Mr. and Mrs. Alfred Phillips of Cleveland, Wis., returned Wednesday to their home after a visit with Mrs. Phillips' sister, Mr. and Mrs. Fred Lindstrom of Homewood avenue.

Mr. and Mrs. David Kimball of Forest avenue, Evanston, announce the birth of a daughter at the Evanston hospital.

Mrs. John McDougall of N. Green Bay road has just returned from Lake Geneva, where she was the guest of

Mr. and Mrs. J. DeYoung of Moorland, Mich., are visiting their daughter, Mr. F. W. Molash of Highwood. They spent the past week in Chicago with Mrs. J. W. Guay, another daughter.

Gray Stubbs of Hazel avenue has just returned from California where he has been visiting for some time.

Mr. and Mrs. William Zimmerman of Hazel avenue returned Sunday from a three weeks visit in Canada.

Mrs. S. T. Rebling of S. Green Bay road will entertain at three tables of five-hundred on Friday afternoon at her home.

Mr. and Mrs. S. T. Rebling of S. Green Bay road spent the week-end at Lake Beulah, Wis.

Messrs. Chisholm and Elisha Stubbs returned Monday to their home on Hazel avenue after a three weeks trip to Canada.

Mrs. Leslie Schaffler and daughter of Lincoln avenue left Tuesday for a four weeks trip through New York and Maine.

Mrs. Robert McClaren of Ravinia has returned from Duluth, Minnesota with her two daughters, Ruby and Elizabeth, where they have spent the summer.

Mr. and Mrs. Roy Russell of Washington avenue announce the birth of a baby girl on Monday, Sept. 5 at the Highland Park hospital.

Mr. and Mrs. Roderick MacPherson of N. St. Johns avenue are receiving congratulations on the birth of a son on Monday, Sept. 5, at the Highland Park hospital.

Mr. and Mrs. Walter A. Wagner of Onwentsia avenue are the happy parents of a son on Saturday, Sept. 4, at the Highland Park hospital.

Mr. and Mrs. George C. Baldwin of Ridgewood drive announce the birth of a daughter on Sunday, Sept. 4, at the Highland Park hospital.

Mr. and Mrs. Milton E. Hagensick of Park avenue are receiving congratulations on the birth of a baby girl on Sunday, Sept. 4, at the Highland Park hospital.

Mr. and Mrs. Alfred G. Roehr of Northbrook are receiving congratulations on the birth of a son on Wednesday, Aug. 31, at the Highland Park hospital.

Miss Emma Borchardt and a party of hair dressers left on Friday for Europe where they will attend a convention of hair dressers.

Mrs. Frank Gardner and son Jack will leave today, Thursday, on a motor trip to Andover, Mass., where Jack will attend the Phillips Andover academy.

Mr. Lorin J. Cahn, commander of the Dumaresq Spencer post No. 145, American Legion sailed yesterday for Paris where he went to attend the National Convention of American Legion. He is going to represent the 8th district which comprises all posts in Lake county.

Mr. and Mrs. Edward Helm and daughter, Lucille, and Mr. John Pan-

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