

WIDESPREAD USE OF COPPER IN INDUSTRY

WAS KNOWN TO ANCIENTS

First Metallic Compound Alloy of This Metal With Bronze; Present Importance in Economic Life

Copper has been used by the human race from the most remote period. Its alloy with bronze was the first metallic compound in common use by mankind, and so extensive was its employment in pre-historic times that the epoch is known in archaeological chronology as the Bronze age.

From medieval times to the present age the use of the ancient metal has gradually expanded. Copper refineries in the United States are making 2,700,000,000 pounds a year, and the output will soon be materially increased. This is nearly 500,000,000 pounds above the record made in 1923 and 270,000,000 pounds above the war peaks in 1917 and 1918.

World War Effects.
America consumed about 800,000,000 pounds a year prior to 1914. The World War suddenly forced domestic consumption above 1,000,000,000 pounds a year, and from 14 cents a pound the metal soared to 36 cents a pound before the conflict ended. Prior to 1914 copper sold at 11 cents a pound compared with a record high of 44 cents a pound during the Civil War. Today it is selling around 14 cents a pound and this country is consuming red metal at the annual rate of 1,600,000,000 pounds.

There was a 25 percent increase last year in copper consumption by electrical industries, accounting for over half the world's production, and a 12 1/2 percent increase in copper by building trades. Copper wires in this country make up 60 percent of the world's total, amounting to 900,000,000 pounds, while the world's telephone and telegraph mechanism absorbs 200,000,000 pounds a year. There are 2,500,000 radio sets in use requiring 5,000,000 pounds of copper at replacement while transmission lines and street railways demand large quantities of metal. Over 3,000,000 pounds of copper was used in building Grand Central station in New York city. Anaconda Copper Mining company started making copper roofs several years ago. The claim is made that these roofs are not only more serviceable than others but last longer and are cheaper to install.

Railroad Demands.
Railroad electrification and super-power development will in future demand millions of pounds of copper, hence the big question is, where will all the metal come from in the next few years? The world looks to the United States for 9 percent of its copper supply. Europe is far behind in the matter of construction. And a world copper shortage is no secret. During the World War Germany stripped roofs from houses and tore bells from churches to melt them for war munitions. Exports from this country averaged more than 60 percent of our total copper output before the war. In the future it is only logical to expect that exports will again total more than 60 percent.

American copper mines paid big dividends before 1914. There was a healthy margin of profit between costs and selling expense. But costs have since soared to high levels. That is why securities of companies with low costs are attracting attention, including Chile, the biggest copper mine in the world, owned by Anaconda, Mother Lode, the lowest cost producer in Alaska, controlled by Kennecott, and Kay Copper, which is being developed by James J. Godfrey, who developed Mother Lode.

EDUCATIONAL VALUE MUSEUM INSTRUCTION

The educational value of museum instruction is becoming more generally recognized. One suburban mother keeps her ten-year-old daughter out of school one morning weekly to bring her to the Art Institute for a private lesson in the Museum Instruction Department. This mother says, "Words cannot express my appreciation of what this work is doing for my child. Its influence is showing in her school work and in her home life." The type of lessons this child is having demands her keenest thinking, yet this is a whole-some demand, for even after the most serious lessons she exclaims, "I wish I could come every day!" A member of the Art Institute witnessing the Saturday morning children's hour for a group of 45 children said, "There should be thousands of children having this wonderful advantage. If the Chicago mothers realized what was happening here they would sacrifice their tea-parties to make time to bring their children."

REFUGEES IN ARGENTINE

Several groups of Armenian refugees, who were sent here with the help of the Near East relief after the Smyrna fire and massacre, are now completely self-supporting, according to a report of the assistance committee organized a year ago by the Argentine government.

One of this year's notable exploits in the canning business is the retirement of many well-known politicians.

FRESHMAN AGAIN AT SIXTY TELLS STORY

Interesting Experiences of Man Who Re-Entered College Late in Life

Governor Templeton of Connecticut, who states that he will enter Yale at the expiration of his term of office, will not be allowed to pursue his studies unmolested by the public's desire for news if a previous example of a public official who went to college at the age of sixty is to be taken as a criterion.

Judge Robert Winston, of North Carolina, in "A Freshman Again at Sixty," in the Christmas Scribner's Magazine, tells how the whole state followed his college career.

"When the news got out that a freshman of sixty had re-entered college there was rare fun," he writes. "The whole state wanted to know. Here was a fellow, evidently in good health, and apparently of sound mind, who had retired while business was good and everything coming his way. Why, if he had not quit so soon he might have held another office or two, possibly got in the million-dollar class, and had his picture in the illustrated Sunday papers, splashing away in the breakers at Palm Beach. Quite incomprehensible that one should forego opportunities of this character, to study philosophy or engage in the childish business of writing stories."

"Of course such an individual made good copy. The news bureau sought him out. One morning soon after his return to college the state papers carried this headline, 'Freshman of sixty hailed before the faculty.' The new student of sixty had skipped a class, and a copy of the official notice to appear and render an excuse for his conduct had reached the press; this, no doubt, at the convenience of the genial college president, whose sense of humor at the incongruousness of the situation was shared by an entire state."

NOTICE OF PUBLIC LETTING

Public notice is hereby given that sealed bids will be received for the construction of a local improvement consisting of the construction of a system of sanitary and combined sewers together with man-holes, catch-basins, catch-basin connections, house and catch-basin slants and "Y" branches and sewage disposal plant, and all accessories and appurtenances thereto, and known as the Village of Deerfield Special Assessment, Docket No. 22 by the Board of Local Improvements of said Village, until the 8th day of December A. D. 1924, at the hour of 3:00 o'clock p. m. at its office in the Masonic Hall in the said Village of Deerfield, Illinois, at which time and place said bids will be publicly opened. The estimate of quantities for the construction of said improvement can be seen at the office of the Village Clerk of said Village.

Said improvement shall be constructed and made in accordance with the ordinance providing for the same and the maps, plats, plans, profiles and specifications for the same on file in the office of the Village Clerk and Engineer of said Village.

Proposals must be made on blanks furnished by said Board and in compliance with the instructions thereto attached, which can be had on application to the Village Clerk and Village Engineer, and must be accompanied by cash or by a check payable to the order of the President of said Board of Local Improvements in his official capacity, certified by a responsible bank, for an amount not less than ten per cent of the aggregate of the proposal.

The contractor shall be paid in Special Assessment bonds bearing interest at the rate of five per cent (5%) per annum.

No bids will be received unless the party offering it shall furnish evidence satisfactory to said Board of Local Improvements that he has the necessary facilities, ability and pecuniary resources to fulfill the conditions of the contract and execute the work should the contract be awarded to him.

Bidders will examine the ordinance, maps, plats, plans, profiles and specifications, and also the locality in which said work is to be done and judge for themselves of all the circumstances and surrounding conditions affecting the cost and nature of the work.

The contractor will be required to give a good and sufficient bond so well and faithfully perform and execute said work in all respects according to the complete and detailed specifications and full and complete drawings, profiles and models therefore, and according to the time and terms and conditions of the contract and further conditions as provided by law, which bond shall be in a sum equal to one-third (1-3) of the amount of such bid with sureties to be approved by the President of the Board of Local Improvements.

The Board of Local Improvements reserves the right to reject any and all bids, as authorized by law.

Dated at Deerfield, Illinois, this 27th day of November, A. D., 1924.

THILO H. TOLL
A. J. ENDER
GEORGE E. ENGSTROM
WM. J. OSTERMAN
FRED J. LABAHN
JAS. J. HOOD
Board of Local Improvements of the Village of Deerfield, Illinois.

LINCOLN PETTIS, Pres. Board.
CHESTER WESSLING, Secy. 39-40

ART OF ISLAM SHOWS UNBROKEN TRADITION

Subordinates Artist's Personality to Mastery of Design and Technic

Modern European art is personal, egotistical, but Mohammedan art subordinates the expression of the artist's personality to mastery of design and perfection of technique. The art of Islam is continuous, carrying forward an unbroken tradition, and therein lies part of the secret of its greatness, according to Professor Arthur Hubbard Pope, formerly of the University of California, who spoke on "Fundamentals of Mohammedan Art" in Fullerton Hall, Art Institute, recently.

The Mohammedans applied their knowledge of mathematics and geometry to their art and achieved perfection of abstract design not equalled since. Line, mass and color were organized with a lucidity unknown elsewhere, and the arrangement of these in purely abstract patterns calls forth a greater emotional response than many obviously pictorial effects.

The artists of Islam also had an unerring sense of the fitness of form to material, and in such matchless ware as Persian pottery, design and material are so happily united that one cannot separate them in thought. Added to all this, Mohammedan art is characterized by perfection of technique in every process.

With the development of intricate pattern and the overlapping of motifs, disintegration was bound to come, and in later Mohammedan art the same urgent vitality is no longer felt but has degenerated into cleverness and elaboration.

At its height Mohammedan art was derived from many sources—Greek, Babylonian, Indian—but with characteristic clarity reduced the borrowed materials to their elements and carried them up to stronger and more subtle combinations.

AIR MAIL TELEPHONES

Long distance telephones for the convenience of air mail pilots have been established at several of the emergency landing fields in the West. The telephones are for use in connection with the air mail between San Francisco and New York. If pilots are forced to land they are thus able to communicate immediately with their regular landing fields.

There is campaign to put more "cart-wheel" silver dollars in circulation. They should appeal to those who want to establish their credit by jingling money in their pockets.

ANNOUNCING SINCLAIR REFINING COMPANY'S New Distributing Plant, Highland Park, Ill.



Sinclair Gasoline - Sinclair Heating Oil - Benzol Motor Fuel - Sinclair Gas Oil - Opaline Motor Oils - Sinclair Greases.

For better Service phone Highland Park 359

Coal-Solvay Coke Wood, Ice

Stone, Cinders and Building Material

Black Dirt, Highest Grade; Manure, Well Rotted

FRANK SILJESTROM

North First Street Telephone Highland Park 65

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The Best Store - On the North Shore WAUKEGAN, ILLINOIS

A Store Where Quality Prevails



TOYTOWN IS OPEN

A mighty fine collection of Toys awaits you here, and it's a grand place to spend a few hours seeing all the wonderful things that Santa has brought for good boys and girls. He has again shown great skill and genius in creating scores of new Toys to interest you.

Books of the Right Kinds

Lewis Carroll, Charles Dickens, Robert L. Stevenson and Dean Swift are some of the well known authors whose great stories, that never grow old, are contributions to a great assortment of splendid books in Toytown for children of every age.

Visit the Kenilworth Gift Shop, third floor

SANTA CLAUS IS IN TOYTOWN AFTER SCHOOL AND SATURDAYS

Santa's Invitation

Come every little boy and girl With bobby hair or pretty curl For Toytown you all must see, And sit a moment upon my knee; Tell me of what you have dreamed, When bells tinkled and candles gleamed, Tell me what you wish to get For Christmas, that would make a hit; Bring brother, sister and mother, too, They'll enjoy it the same as you.

SANTA