



HEART MODEL—To demonstrate how a heart works, doctors can use this teaching model of a heart.

Finally, or earlier in the examination, there may be laboratory tests of blood and urine and investigation of the condition of liver, lungs and kidneys, since heart trouble may often be accompanied by disorders of other parts of the blood circulation system.

Science News Letter, February 6, 1954

GEOCHEMISTRY

Scientists Find How Mercury Ore Deposited

► EXACTLY HOW nature deposits mercury ores has been discovered by two geologists at the University of California at Los Angeles. This promises to aid in discovering new sources of this strategic mineral.

Frank Dickson and Dr. George Tunnel have established that cinnabar, which is mercuric sulfide and the chief mineral source of mercury, is precipitated when solutions containing mercury sulfide and sodium sulfide are neutralized or diluted with water.

Evaporation actually increased the amount of dissolved cinnabar, although continued evaporation eventually precipitated the mercury. This was not in the form of cinnabar, however, but in that of an easily redissolved double salt.

This work is the first to definitely establish the precipitation curve of cinnabar at a fixed temperature. The study is one step in a series tracing the course of mercury compounds in naturally occurring solutions to their final ore deposit form.

Further improvements in the understanding of the origin of mercury deposits are expected to result from the combined field and laboratory studies of economic geologists and geochemists. The study is being performed under a contract with the Office of Naval Research.

Science News Letter, February 6, 1954

CHEMISTRY

Largest Artificial Quartz Crystal Weighs 2 Pounds

See Front Cover

► THE LARGEST man-made quartz crystal, shown on the cover of this week's SCIENCE NEWS LETTER, is unusually clear and weighs over two pounds.

The record-breaking crystal was grown by Brush Laboratories, Cleveland, Ohio, on a natural quartz seed plate less than one-twentieth its size, and took 78 days to reach its final dimensions.

Pure quartz crystals grown under exact conditions will, it is hoped, give even more perfect control of radio and TV circuits and astronomical clocks than scarce imported natural crystals.

Very fine natural quartz imported from Brazil furnishes the crystals now depended upon for high precision instruments.

The largest synthetic crystal was grown at 660° Fahrenheit, with the material compressed in an autoclave at a pressure of 5,000 pounds per square inch. Water containing 18% sodium carbonate (common washing soda) was the medium for growing the crystal.

Science News Letter, February 6, 1954

Start Speaking FRENCH or SPANISH

RIGHT AWAY! NO COST! NO OBLIGATION!

Just Listen to This
**FREE
RECORD**



MAIL coupon below. You'll receive—FREE—a double-faced, non-breakable sample record and a sample lesson in the language of your choice.

You merely listen to the cultured voice of the native instructor on the record. At the same time, your eyes follow the same words in the sample lesson. At first the words are simple. Then the instructor groups them into phrases and sentences. Almost before you know it—you'll be "chatting" easily in your new language.

A Wonderful Time to Start

Now is the perfect time to learn a new language. American business abroad is booming; travel is running into billions. Well paying, interesting jobs are open both here and overseas, for two-language Americans; and a second language makes your trip abroad twice as enjoyable and saves expenses.

Mail Coupon for FREE RECORD

There are no "strings" to Cortina's offer. But the offer may end soon. So you are advised to hurry. Simply mail coupon with 25c (coin or stamps) to help cover cost of special packaging, shipping. You will also get free information about the full Cortina Course which includes text books, recordings. But sending for the free record does not obligate you in any way.

Also:
RUSSIAN
GERMAN
ITALIAN
JAPANESE
BRAZILIAN-
PORTUGUESE

CORTINA ACADEMY

(Originator of Phonograph Method)
Dept. 602, 136 W. 52nd St., New York 19, N. Y.

CORTINA ACADEMY, Dept. 602
136 W. 52nd Street, New York 19, N. Y.
Please mail me a FREE sample record and lesson in (check one):

Spanish French Russian German
 Italian Japanese Brazilian

and complete information about the full Cortina Course. Enclosed is 25c (coin or stamps) to help cover the cost of special packaging, shipping. I understand this does not obligate me in any way.

Name.....
Address.....
City.....Zone.....State.....