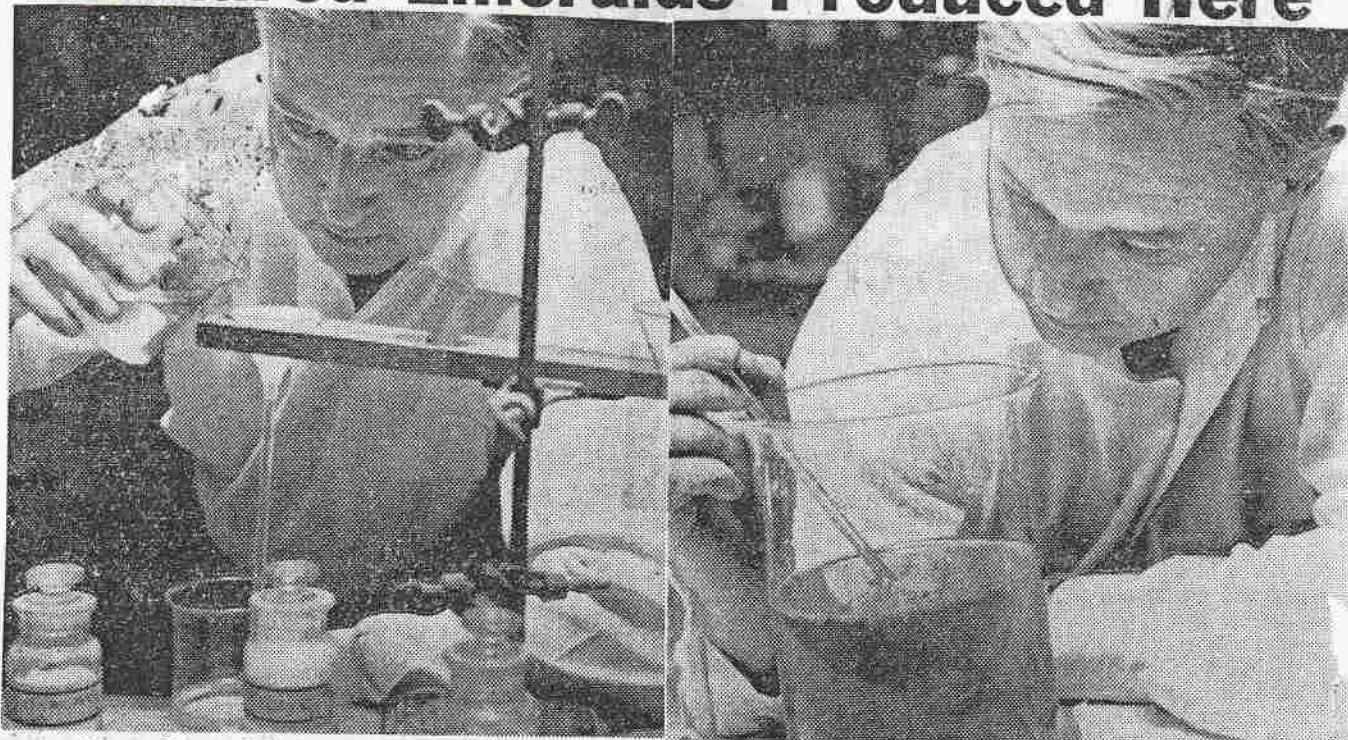


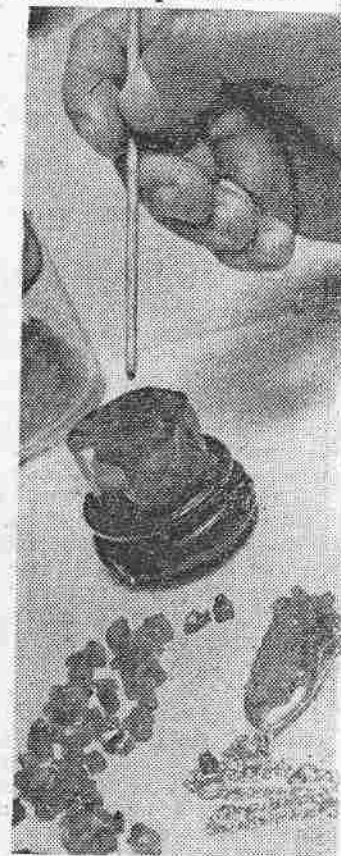
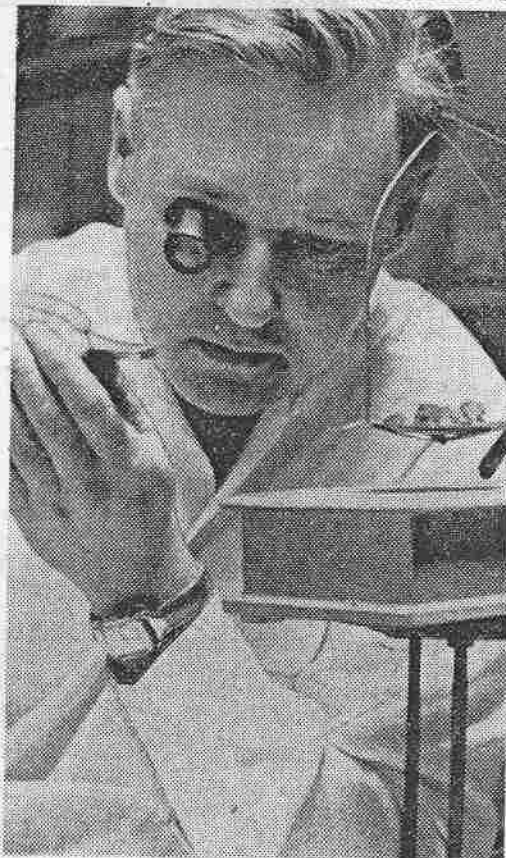
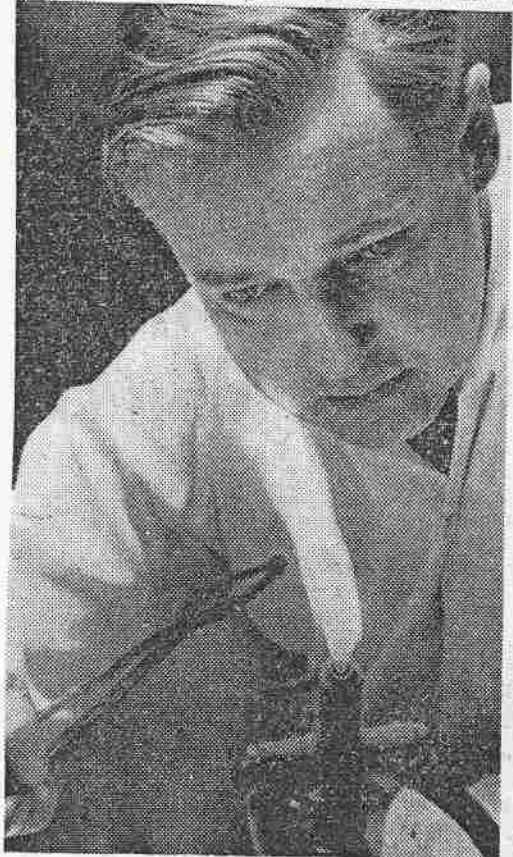
THURSDAY, JUNE 30, 1955

Cultured Emeralds Produced Here



Emeralds are being grown here, in a laboratory at 70 Fourteenth street. The "gardener," shown here cultivating his product, is Carroll F. Chatham, 40, who keeps no notes of the secret process by which he manufactures some 5,000 carats of

the gems a month. San Franciscans will have a chance to look at one of these home-grown gems, including a cultured emerald that weighs 300 carats, at a lapidary show July 8 through 10 at the Civic Auditorium. Some of the steps taken in



producing the gem include, left to right: Mixing of the solution into which a crystal, later to be the emerald, is suspended; taking temperature checks on the solution; testing the finished cultured emerald for heat resistance and, finally,

weighing the stone. In photo at right, Chatham indicates the 300 carat stone that will be included in the Civic Auditorium display. Chatham's process cost him some \$100,000.—Call-Bulletin Photographs by Staff Cameraman Sid Tate