

## Clough Brengle: Superior (now Vintage) Test Equipment

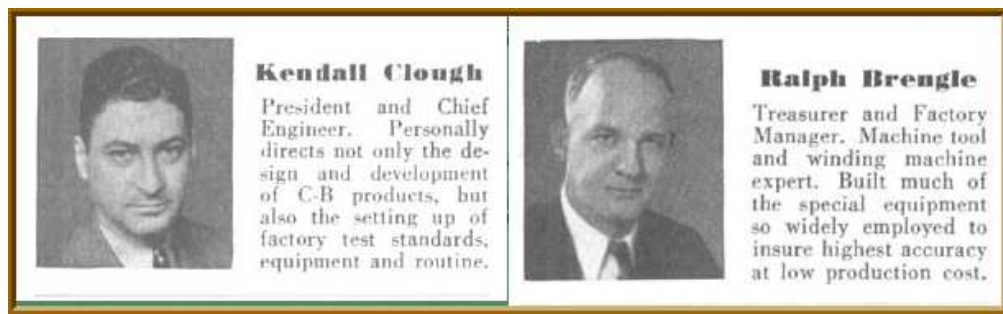
By Bart Lee, K6VK, CHRS Fellow, AWA Fellow

The Clough Brengle company (logo: C B) made superior test equipment in the 1930s and thereafter in Chicago, at least into the 1960s. A quick Google Images search will show much of it, including its later green-faced models of elegance.

The late H. L. Chadbourne traced its formation:\*

Kendall Clough associated with the Research Lab of Chicago. In about June 1924 McMurdo Silver and John R. Marshall formed Silver-Marshall, Inc. [S-M]. A nucleus of engineers from the Research Lab of Chicago joined the company. Silver-Marshall went bankrupt in 1932, [no doubt a victim of the Depression]. But Kendall Clough and Ralph Brengle then formed Clough Brengle in 1932.

A set of short biographies<sup>†</sup> show that Clough brought radio engineering to the new company (he had been S-M's Chief Engineer) and Brengle brought machining expertise.



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\* From the CHRS archives, a hand-done chart by Chadbourne courtesy of Hal Layer, CHRS; paraphrased.

† From "Radio Ron" Ron Lawrence, at <http://cloughbrengle.homestead.com> -- a complete Clough Brengle site at <http://radioheaven.homestead.com> .

In July 1937, C B hired a University Ph. D (Dr. Maxwell R. Krasno), according to *Physics News*, for development work. In addition to test equipment, the company also made at least one transmitter for the government, for the Forest Service:‡



Occasionally, some “C B” equipment shows up on the West Coast, and even at CHRIS. For example:



An early oscilloscope “CRA”; Bart Lee Collection and Photo

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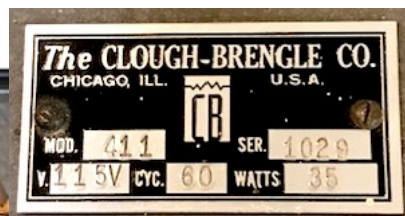
‡ Restoration of the Model 87 Clough Brengle transmitter by Ron Lawrence  
<https://projfiles.antiquewireless.org/home/restoration#h.k2lo4i1tff7g>



A Beat Frequency Oscillator "79"; Bart Lee Collection and Photo



An RF Generator "OC"; Bart Lee Collection and Photo



A later (1960s) Audio Generator "411"; Bart Lee Collection and Photo

(Special thanks to Jim Tripp WA6DIJ, for saving so much test equipment! –  
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