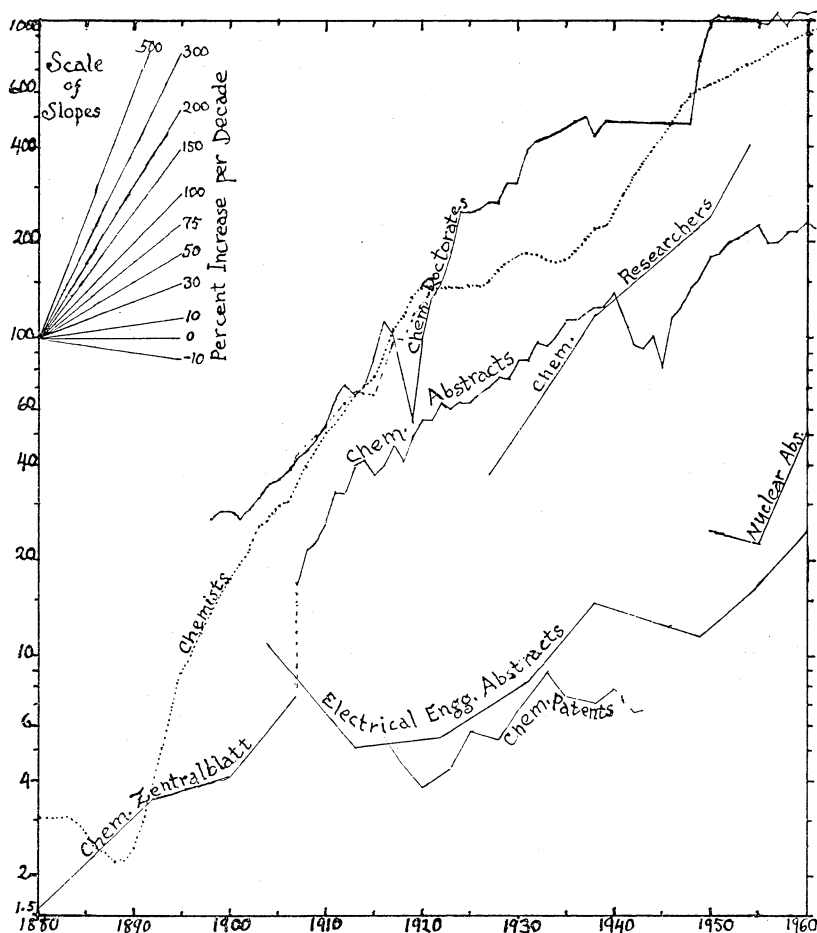


CHART 2

VARIOUS INDICES OF AMERICAN INVENTIVE EFFORT, ESP. CHEMICALS, 1880-1960



mercial industry,⁵⁷ as far back as data can be found, all restated in dollars of stable 1938 consumer's value.⁵⁸ While these data are somewhat shaky, especially in their earlier years,⁵⁹ the chart reader can see that even if some figures ought to be doubled or halved, this would make little difference in the slope of their graphs.

[57] Confirmation for these historigrams, and a better measure of invention, bypassing the problem of an appropriate price index,⁵⁸ is afforded by the counts of professional grade workers in industrial research⁶⁰ (chart 3), since 1940 often working on Government contracts, and of chemical researchers⁶¹ in the chemical, petroleum and rubber industries, a subclass of the preceding, on chart 2; and best by our graph of all organized research professionals (on R&D, governmental, industrial, university, and others), shown on chart 4.⁶²