Elsevier's encyclopaedia of organic chemistry. (Vol. 13, Tricyclic compounds; Series III, Carboisocyclic compounds.) E. Josephy and F. Radt. (Eds.) New York-Amsterdam: Elsevier, 1946. Pp. xx+1265. Single volume, \$104; serial price, \$91; subscription price, \$78.

Volume 13 is the second to appear in this projected compilation in the English language and the second in Series III. In due time, the systematic description of all organic compounds appearing in the scientific literature will have been included. Elsevier has not attempted to cover those compounds described in patents; on the other hand, the well-known Beilstein does refer to the patent literature, although the writer is not informed whether the coverage has been world-wide or limited to German patents.

With the availability of only two volumes of the eventual 20 of Elsevier, a detailed comparison with its counterpart, Beilstein, is not warranted at this time. Of greatest immediate value to the reader may be the description of one or two compounds selected at random and appearing in both Beilstein and Elsevier.

In Elsevier (p. 236):

^{(*9}-Chloroanthracene, $C_{14}H_{9}Cl$, golden-yellow needles (alc.), m. 103° (1876 Perkin), m. 106°, M_{α} 68.14, M_{D} 69.39, N_β 72.81, M_{γ} 77.53 (1923a Krollpfeiffer); green in fuming $H_{2}SO_{4}$, addn. of water causes a brown ppt.— Fmn. Anthracene with 1 mol. of Cl_{2} in $CS_{2} \rightarrow$ dichloride fusion

 \rightarrow 9-chloroanthracene (1876 P.). From anthracene and *tert*-butyl hypochlorite (1931 Clark)."

At the bottom of the page on which this description appears is a notation: "References, pp. 258, 259." By turning to page 258, one finds the references listed under the date of appearance.

In Beilstein (Vol. V, p. 663):

^{('9}-Chlor-anthracen, $C_{14}H_9Cl$. B. Man lässt Chlor auf Anthracen einwirken und schmilzt das hierbei enstehende Anthracendichlorid (Perkin, Chem. N., 34, 145; Bl [2] 27, 465).—Goldgelbe Nadeln (aus Alkohol). F: 103°. Sehr leicht löslich in Äther, CS₂₉, Benzol. Verbindung mit Pikrinsäure s. Syst. No. 523.''

In Elsevier (p. 805):

(9,10-Diethylphenanthrene, $C_{18}H_{18}$, m. 105-6°.—Fmn. From diethylphenanthrone (p. 891) as the dimethyl compd. (1908 Zincke; cf. 1913 Meerwein)."

In Beilstein (Vol. V, Suppl., p. 339):

$$``9,10-Di"athyl-phenanthren, C_{18}H_{18} = \begin{vmatrix} C_{e}H_{4} & C & C_{2}H_{5} \\ | & | \\ C_{e}H_{4} & C & C_{2}H_{5} \end{vmatrix}$$

Aus 9,10-Diacetylphenanthren durch Reduction mit Jodwasserstoffsäure und rotem Phosphor (Willgerodt, Albert, J. pr. [2] 84, 392). Blättchen (aus Alkohol). F: 90-91°.

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"Als 9,10-Diäthyl-phenanthren (?) wird ein bei 105-106° schmelzender Kohlenwasserstoff angesprochen, der bei der Reduktion von 10-oxo-9,9-diäthyl-9,10-dihydrophenanthren mit Jodwasserstoffsäure ensteht (Zincke, Tropp, A. 362, 254: vgl. Meerwein, A. 396, 249) und einmal bei der Reduktion von 9-äthyl-9-propionylfluoren mit Natriumamalgam in saurer Lösung erhalten wurde (Meerwein, A. 405, 174)."

The formula index appearing in each volume of Elsevier is to be preferred to the name index in each volume of Beilstein, although a complete formula index is indeed available covering all volumes of Beilstein.

This and the previous Volume XIV have merit and are reference works with which all organic research men should be familiar.

ROGER ADAMS

University of Illinois, Urbana

James McKeen Cattell, man of science. Vol. I: Psychological research; Vol. II: Addresses and formal papers.
A. T. Poffenberger. (Ed.) Lancaster, Pa.: Science Press, 1947. Vol. I: Pp. 586; Vol. II: Pp. 507. \$10.00.

Here is a unique history of the rise of experimental psychology for the first 50 years. It is an on-the-spot commentary by our most authoritative commentator giving an up-to-date report of progress from year to year. In his capacity as spokesman or public relations man for psychology, Cattell has blazed many new trails and fought many a battle for psychology among the sciences. These volumes will be news for the student of today and will stand as a historical classic.

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Since the whole is a condensation of the author's 167 articles listed in the chronological bibliography and since the original articles were written as models of brevity and clarity, the space allotted for this review does not