

CHAPLAIN ARMY CORPS.

Under the present provisions army chaplains are appointed in the initial grade of First Lieutenant and after successful periods of service are promoted to the grades of Captain,

Major and Lieutenant Colonel. They have an actual rank (without command), pay and allowances of the grade held and the same retirement features common to all officers of the service.

BOOK NOTICES AND REVIEWS.

Die aetherischen Oele, VON E. GILDEMEISTER UND FR. HOFFMANN. *Dritte Auflage*, VON E. GILDEMEISTER. Bearbeitet im Auftrage der Schimmel & Co. Aktiengesellschaft, Miltitz bei Leipzig. Zweiter Band, pp. XXIII, 959, mit neun Karten und zahlreichen schwarzen und bunten Abbildungen, Verlag der Schimmel & Co. Aktiengesellschaft, Miltitz bei Leipzig (Fuer den Buchhandel: L. Staackmann, Leipzig) 1929.

Upon opening the second volume of the third edition, the reader is in doubt what to admire more, the book as a scientific treatise or the tome as a product of the art of bookmaking. Always of a high order, the present volume is enhanced by a number of colored illustrations already familiar to the readers of Schimmel & Co's. "Bericht." These plates, the originals of which were donated to the Duetsches Museum in Muenchen, bear the following legends:

"Edeltannenzapfendestillation in der Schweiz" (opposite page 176).

"Destillation von Palmarosaeol in Vorderindien" (opposite page 296.)

"Destillation von Lemongrasaeol in Vorderindien" (opposite page 304).

"Irisanpflanzen in Nord-Italien" (opposite page 418).

"Destillation von Sternanisaeol in Tongkin" (opposite page 566).

"Canangablueten-Destillation auf Java" (opposite page 582).

"Campherbaum" (opposite page 652).

In addition there are fifty-six black and white illustrations, also nine maps (including one chart) two of which are printed in colors.

However, the general excellence of the workmanship of the bookmaker has not been accomplished at the expense of the real contents, the text. The 674 pages of the corresponding volume of the previous edition have been increased to 959 pages. The number of volatile oil monographs has been increased from 416 to 584.

If the 178 additional monographs in a measure represent the growth of the volatile oil literature represented in the second volume,

they do not by any means represent all of the progress. This may be studied by comparing some of the monographs. Thus, the monograph on camphor oil has been increased from approximately thirty-two to thirty-eight pages. What is more, however, the number of known constituents has been increased from twenty-four to thirty-six. Some of these are caryophyllene, sesquicamphene, sesquicamphenol, sesquiterpene alcohol, α - and β -camphorene (two diterpenes), ethyl guaiacol, *n*-capronic acid, caprylic acid, *d*, *l*-citronellic acid, lauric acid and piperonylic acid. What a contrast this represents when compared with our knowledge of the volatile constituents of the camphor tree little more than a generation ago. It, like many other plant products, constitutes a veritable gold mine for the chemist who has sufficient material and is willing to devote the time to a detailed study of any one of these volatile oils.

Valuable as are these contributions to our knowledge of the volatile oils as a commercially important class of plant products, the greater significance of our increased knowledge lies in the new vistas opened up in the study of the life processes of plants. When one considers how little we know even now, the so-called "pure" scientist must be grateful to those who are making commercially available these products in sufficiently large quantities so as to make possible such detailed studies.

The appearance of the second volume within approximately a year after that of the first of the third edition speaks well for revisor and publisher. It makes us hopeful of being able to welcome volume three before the year 1930 has slipped by.—E. K.

Betäubungsmittel und Rauschgifte. "Stupefacients and Intoxicants, Their Sources, Properties and Dangers." By PROFESSOR HERMANN THOMS. Urban & Schwarzenberg, Berlin and Vienna. Price 7.20 marks.

In order to give a just and adequate review of any book, the critic must take into consideration not only the contents of the literary