

abundant in individuals and species (*C. Suckowii*, *Cistii*, *cannæformis*, *varians*, *approximatus*, *A. rigidus*, *grandis*, *hippuroides*), *Annularia radiata*, *Sphenophyllum*. Among the ferns there are few true sphenopterids, but *Neuropteris* is common (*N. flexuosa*, *auriculata*), also *Odontopteris* (*O. reichiana*, *Schlotheimii*), *Pecopteris* (*P. arborescens*, *pulchra*, *candolliana*, *villosa*, *oreopteridia*, *crenulata*, *aspidoides*, *elegans*), *Caulopteris*, *Psaronius*. *Lepidodendra* are few (*L. Sternbergii*, *elegans*, *Lepidostrobus sub-variabilis*, *Lepidophloios laricinus*, *Knorria Selloni*, *Lepidophyllum majus*). *Sigillarioid* forms are likewise on the wane when compared with their profusion below (*Sigillaria elliptica*, *Candollii*, *tessellata*, *elegans*, *grasiana*, *Brardii*, *spinulosa*: *Syringodendron cyclostigma*, *distans*; *Stigmara ficoides* abundant). *Cordaite*s, however, now becomes the dominant group of plants, but with a somewhat different facies from that which it presents in the middle Coal-measures (*C. borassifolius*, *C. principalis*, *Dadoxylon Brandlingii*, *Cardiocarpus emarginatus*, *Gutbieri*, *major*, *ovatus*). *Calamites cruciatus* makes its appearance, also *Walchia piniformis*.

Middle Coal Flora—(Upper Zone, *Supra-moyenne*).—*Calamites* numerous (*C. Suckowii*, *Cistii*, *cannæformis*, *ramosus*; *Asterophyllites foliosus*, *longifolius*, *grandis*, *rigidus*; *Annularia minuta*, *brevifolia*; *Sphenophyllum saxifragæfolium*, *Schlotheimii*, *truncatum*, *majus*. Ferns represented by *Sphenopteris* (*S. latifolia*, *irregularis*, *trifoliolata*, *cristata*, etc.). *Prepecopteris* (maximum of this genus), *Pecopteris* (*P. abbreviata*, *villosa*, *Cistii*, *oreopteridia*, etc.), *Caulopteris*, *Neuropteris*, and other genera. *Lepidodendra* are not infrequent (*Lepidodendron aculeatum*, *Sternbergii*, *elegans*, *rimosum*; *Lepidostrobus variabilis*; *Lepidophloios laricinus*, *Lepidophyllum majus*), and various *Lycopodites*. The proportion of *Sigillaria* is always large (*S. Cortei*, *intermedia*, *Sillimanni*, *tessellata*, *cyclostigma*, *alternans*, *Brongniarti*, *Stigmara ficoides*, *minor*). *Pseudosigillaria* is abundant, especially *P. monostigma*. *Cordaite*s appears in some places abundantly (*C. borassifolius*, *Artisia transversa*, *Cladiscus schnorrianus*), and its fruits are numerous and varied (*Cardiocarpus emarginatus*, *orbicularis*, *ovatus*).

Middle Coal Flora (properly so called), characterized above all by the dominant place of the *Sigillarioids*, which now surpass the *lepidodendroids* and form the main mass of the coal-seams. The genus *Sigillaria* here attains its maximum development (*S. Groeseri*, *angusta*, *scutellata*, *intermedia*, *elongata*, *notata*, *alternans*, *rugosa*, *reniformis*,