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IV. *Abstract of a paper on the Constitution of Gymnospermous Flowers.*
By A. W. EICHLER. Communicated by Professor BALFOUR.

V. *List of Fossil Plants found in the Tertiary Strata of the South-East of France.* By GASTON DE SARTORI. Communicated by Professor BALFOUR.

(From "Annales des Sciences Naturelles," 4th ser. Bot. tom. xix.)

Algæ. Chara destructa, Sap.

Musci. Muscites intricatus, Sap. (allied to Bartramia fontana, DC.)

Filices. Goniopterites lacerus, Sap.

Equisetaceæ. Equisetum lacustre, Sap. (allied to Equisetum arundinaceum, Bory.)

Coniferæ. Callitris Brongniartii, Endl. (allied to Callitris quadrivalvis, Vent.); C. Heerii, Sap. (allied to Callitris quadrivalvis, Vent.); Libocedrites salicornioides, Endl. (allied to Libocedrus decurrens, Thuiopsis dolabrata, Sieb. et Zucc.); Widdringtonia antiqua, S. (allied to Widdringtonia cupressoides, Endl.); Frenelites ? exul, Sap.; Juniperites ambiguus, Sap. (allied to Juniperus phœnicea, L.; Juniperus excelsa); Peuce aptensis, Sap.; Pinus zachariensis, Sap. (allied to Pinus Strobus, L.)

Taxaceæ. Podocarpus eocenica, Ung. (allied to Podocarpus elongata, Herit.)

Graminææ. Arundinites confusus, Sap.

Cyperaceæ. Carex ? tertiaria ? Heer. (allied to Carex stricta, Good.); Cyperites gramineus, Sap.; C. Zollikoferi ? Heer.

Rhizocaulææ. Rhizocaulon Brongniartii, Sap.; R. gracile, Sap. (allied to Thamnorchortus scariosus, R. Br.); R. polystachyum, Sap. (allied to Restio complanatus, R. Br., quoad inflorescentiam).

Palmæ. Flabellaria gargasensis, S.; F. incerta, Sap.; F. thrinacea, Sap. (allied to Thrinax argentea, Hort.); F. pumila, Sap.; Palmacites vestitus, Sap.; P. vaginatus, Sap.; P. erosus, Sap.; P. grandis, Sap.

Smilacææ. Smilax linearis, Sap. (allied to Smilax xnuollis, H. B. K., and S. triplicinervia, H. B. K.); S. sagittiformis, Sap. (allied to Smilax aspera, S.); S. elongata, Sap.

Dioscoreaceæ. Dioscorites resurgens, Sap. (allied to Rajania, sp.; Dioscorea Zollingeriana, Kunth, and D. nummularia, Lam.)

Naiadaceæ. Potamogeton lucidus, Sap.; P. enantophyllus, Sap. (allied to Potamogeton pectinatus, L.)

Typhaceæ. Typha latissima, A. Braun (allied to Typha latifolia, L.); Sparganium stygium, Heer. (allied to Sparganium natans, L.); S. valdense, Heer. (allied to Sparganium ramosum, L.)

Myricaceæ. Myrica pusilla, Sap.; M. minima, Sap.; M. rotundiloba, Sap.; (allied to Myrica esculenta, Don.); M. elongata, Sap. (allied to Myrica serrata, Lam.); M. tenuinervis, Sap.; M. zachariensis, Sap. (allied to Myrica californica, Hort., and M. pennsylvanica, Lam.)

Betulaceæ. Betula ulmacea, Sap. (allied to Betula lutea, Michx.); Alnus prisca, Sap. (allied to Alnus incana, DC., and A. glauca, Michx.)

flowering period, to the above law, occurs in the bigeneric hybrid of the *Rhododendron Chamæcistus*, and the *Menziesia empetrifolia*—the *Bryanthus erectus* (Graham), inasmuch as I have found apparently well-developed pollen grains in the anther-cases, yet I have repeatedly failed in fertilising this plant with its own pollen, or that of either parent.