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It may be added that, in the opinion of the writer, such variations are teratological in their nature. As such, they may be of great significance in the study of the nature and development of plant organs, but have little meaning for purposes of classification and should not be given separate names.

The accompanying illustration, kindly made for the JOURNAL by Miss Una L. Foster, shows a very full series of gradations between normal fertile and sterile fronds.

C. A. W.

Several weeks ago I received from Miss Sarah F. Sanborn, of Concord, N. H., a number of fertile fronds of the Ostrich Fern which were partially developed as foliage fronds after the manner of the *obtusilobata* form of the Sensitive Fern. In regard to these, Miss Sanborn writes: "My Ostrich Ferns have grown for years on the east side of my house, but I never before saw such abnormal growths. I am inclined to think that the great quantity of wood ashes I used about the ferns had the effect noticed."

Here seems to be another bit of evidence in line with the above discussion. Have any of our readers further evidence bearing on the matter? If so, they are invited to send it in to the editors.

E. J. W.

A Christensen Bibliography

Some time ago a list of the botanical writings of Mr. Carl Christensen was published in the JOURNAL.¹ He has now sent us the following list, complete up to the end of 1914. It has already been printed, partly in his own work on Danish botanical literature, partly in the

¹ 2: 56. 1912.

Botanisk Tidsskrift.² We print it again, for our readers, as a record of value, and have added the two titles of 1916.

Copies of the items marked with an asterisk have been generously presented to the American Fern Society by Mr. Christensen, and are now deposited with the secretary.

Nogle floristiske og biologiske Meddelelser.—Bot. Tids. **20**: XLI–XLIII. 1896.

Skindode Planter.—“Frem” (Vor Jord), 3 Aug. 1902, 2 f. 1902.

*Revideret Liste over danske Pteridofyter.—Bot. Tids. **24**: 369–376. 1902.

*New ferns from Brazil.—Bot. Tids. **25**: 77–81. 1902.

Mærkelige Tilpasningsformer hos Bregner.—“Frem” (Vor Jord) 10 Maj 1903, 4 f. 1903.

*On the American species of *Leptochilus* Sect. *Bolbitis*.—Bot. Tids. **26**: 283–287, 8 f. 1904.

A new *Elaphoglossum* from Brazil.—Bot. Tids. **26**: 299–300. 1904.

Vegetationen paa Oerne i Smaalandsøhavet.—Bot. Tids. **26**: 321–342. 1904.

Index Filicum, sive Enumeratio omnium generum specierumque Filicum et Hydropteridum ab anno 1753 ad finem anni 1905 descriptorum, adjectis synonymis principalibus, area geographica, etc.—Hafniae, 8^o. (LX + 744). 1905–6.

Dansk botanisk Litteratur i 1904 og 1905.—Bot. Tids. **27**: LXVI–LXXIX.—i 1906 og 1907.—Bot. Tids. **29** (1909): 170–175.—i 1908 og 1909.—Bot. Tids. **31** (1911): 73–91. 1906–11.

Filices i Aug. Chevalier: *Novitates Floræ Africanæ*.—Bull. Soc. bot. France, mémoire **8**: 29–30, 1 f. 1907.

*Revision of the American species of *Dryopteris* of the group of *D. opposita*.—Vid. Selsk. Skr. VII. **4**: 247–336, 52 f. 1907.

Botansk for Realklassen.—Kbhvn. 8^o. (96, 75 f.). 1909.

Dryopteris nova brasiliensis*.—Fedde: *Repertorium sp. nov.* **6: 380–381. 1909.

The American ferns of the group of *Dryopteris opposita* contained in the U. S. National Museum.—Smithsonian Misc. Collections (Quarterly issue) **52**: 365–396. 1909.

*On *Stigmatopteris*, a new genus of ferns, with a review of its species.—Bot. Tids. **29**: 291–304, 15 f. 1909.

² **34**: 162. 1916.

*Ueber einige Farne in O. Swartz' Herbarium.—Arkiv för Bot. 9¹¹: 1-46, 13 f., t. 1-5. 1910.

*On some species of ferns collected by Dr. Carl Skottsberg in temperate South America.—Arkiv för Bot. 10²: 1-32, 4 f., 1 t. 1910.

*Four new ferns.—Fedde: Repertorium sp. nov. 9: 370-372. 1911.

Pteridophyta in insula Quelpaert a cl. P. Taquet anno 1910 lecta.—Bull. Géogr. Bot. Mans 1911: 69-72. 1911.

On the genus Dryopteris.—AMER. FERN JOURN. 1: 33-37. 1911.

The Pteridophyta of arctic regions.—AMER. FERN JOURN. 1: 65-70. 1911.

The tropical American species of Dryopteris subgenus Eudryopteris.—AMER. FERN JOURN. 1: 93-97. 1911.

*Two new bipinnatifid species of Alsophila.—Fedde: Repertorium sp. nov. 10: 213-214. 1911.

*On a natural classification of the species of Dryopteris.—Biolog. Arbejder tilegn. Eug. Warming: 73-85. 1911.

Pteridophyta (excl. Selaginella) in H. Ross: Contributions à la flore du Mexique—Soc. Sci. "Antonio Alzate." Mémoires 32: 175-199, 1 t. Mexico. 1912.

*On the ferns of the Seychelles and the Aldabra Group.—Trans. Linn. Soc. London II. Bot. 7: 409-425, pl. 45. 1912.

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*Filices Esquirolianae 1910-1911.—Bull. Acad. int. Géogr. Bot. Mans 22 Année: 137-143. 1913.

*A monograph of the genus Dryopteris. Part I. The tropical American pinnatifid-bipinnatifid species. Vid. Selsk. Skr. VII. 10: 53-282, 46 f. 1913.

*Filices Purdomianae.—Bot. Gazette 55: 331-338. 1913.

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Some American species of Dryopteris.—AMER. FERN JOURN. 4: 77-83. 1914.

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*New ferns from Madagascar.—Arkiv för Bot. 14¹⁹: 1-8, 2 t. 1916.

*Maxonia, a new genus of tropical ferns.—Smithsonian Misc. Collections, 66⁹: 1-4. 1916.