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Some Ferns of the Ozark Region of Missouri

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large numbers, in light as well as in darkness; [D] in sexual intercourse; [E] in the care of young.

A. [a] By general color contrasted with the environment; crows, blue birds, etc.

[b] By striking colors, which may be hidden when at rest, but automatically shown either during flight, at the moment of stopping, or during a calling cry, viz:

* About the tail, most mammals and birds which are protectively colored.

** About lateral appendages; ears in mammals, wings, in birds.

B. [a] By striking marks about the head and neck: raccoon, badger, etc., finches, etc., etc.

[b] By various spots and lines, on shoulders and sides; skunks, etc.

[c] By paleness of belly and inner sides of legs.

C. [a] Not only by marks already mentioned, but especially by vivid and extensive markings on shoulders, sides or flanks; zebra, etc.

[b] By special marks on feet and legs.

D. [a] By many of the lateral and caudal markings already mentioned.

[b] By different colors according to sex; night-hawks, etc., etc.

[c] By difference in extent or shape of markings according to sex; antelope, etc.

E. By various spots or lines appearing only in the young stages; deer, some *Suidæ*, and some *Felidæ*.

SOME FERNS OF THE OZARK REGION OF MISSOURI.

BY PROFESSOR R ELLSWORTH CALL.

(Abstract.)

This paper lists with certain remarks on habitat and geographical distribution, the species of *Filices* incidentally collected during a two months exploration of Shannon, Reynolds and Texas counties, Missouri. The species collected and represented by specimens exhibited with the paper are the following: *Pteris aquilina* Linn. abundant; *Phegopteris*

hexagonoptera Fee, rare; *Aspidium achrosticoïdes* Swz., among the specimens exhibited are many with bifurcated rachis or bifurcated pinnae or pinnules; *Camptosorus rhizophyllus* Link, abundant on limestone cliffs; *Asplenium trichomanes* Linn.; common *Asplenium ebeneum* Aiton, somewhat rare; *Asplenium ruta muraria* Linn., rare; *Asplenium bradleyi* Eaton, occurred but once and then in some abundance on lime-stone rocks in Texas county; *Asplenium parvulum* rare; *Pellaea atropurpurea* Link, abundant; *Polypodium vulgare* Linn., not very abundant; *Polypodium incanum* Swz., very abundant in numerous localities; *Onoclea sensibilis* Linn., occurred but once in Shannon county, in a marsh-like area high up in the mountains; *Cheilanthes lanuginosa* Nutt., very abundant on limestone cliffs in dry situations and very large, occasionally; in some localities the rocks were entirely carpeted with this form; *Adiantum pedatum* Linn., occurred only in very damp situations and then was not common; *Adiantum capillus-veneris* Linn., occurred only once to us and then on limestone cliffs overhanging the Currant river, close to the water; *Woodsia obtusa* Torrey, abundant at one locality in Dent county, close to Shannon county; *Botrychium virginicum* Swz., rare; *Osmunda regalis* Linn., occurred once in a marshy area high up in the mountains; *Cystopteris fragilis* Bernh., abundant; *Cystopteris bulbifera* Bernh., abundant. The collection includes in all fourteen genera and twenty-one species. It is presented not as an illustration of the full fern flora, but as a contribution to a better knowledge of a little known area.

NOTES ON THE GROSS ANATOMY OF CAMPELOMA.

BY PROF. R. ELLSWORTH CALL.

(Abstract.)

This paper gave the results of certain studies made on abundant specimens of *Campeloma subsolidum*, completing