

Grevillea,

A MONTHLY RECORD OF CRYPTOGAMIC BOTANY
AND ITS LITERATURE.

NOTICES OF NORTH AMERICAN FUNGI.

By the REV. M. J. BERKELEY, M.A., F.L.S.

(Continued from Page 53.)

376. **Phoma macropus.** *B. & C.*—Subcuticulare, peritheciis sparsis; sporophoris flexuosis sporis oblongis 5-6 longioribus. On the white shoots of some shrub. Scattered, tearing off with the cuticle; scattered, collapsed; sporophores waved, 5-6 times longer than the short oblong spores. Nearly allied to the last, but distinct.

377. **Phoma Petersii.** *B. & C.*—Erumpens, demum superficiale, hysteriiforme in lignum dealbatum situm, sporis ellipticis, binucleatis. On wood which has been exposed to the weather, and has become bleached. Alabama, Peters. No. 5234.

Scattered, hysteriiform, erumpent, then free; spores elliptic, $\cdot 000\frac{3}{4}$ long, with two nuclei. Distinct from *Phoma epileucum*, B., in which the spores are $\cdot 00015$ long, and not so elliptic.

378. **Phoma citrulli.** *B. & C.*—Deplanatum superficiale, sporophoris sporis fusiformibus bi-trinucleatis brevioribus. On seeds of water melon. Car. Inf. No. 5031.

Flat, superficial, sporophores shorter than the fusiform 2-3 nucleate spores, $\cdot 0008$ long.

379. **Phoma cucurbitale.** *B. & C.*—Sparsum deplanatum nitidum; sporis breviter oblongis binucleatis minutis. On seeds of water melon.

Scattered, shining, flat; spores minute, oblong, binucleate, $\cdot 0002$ - $\cdot 00025$ long.

380. **Phoma ampelinum.** *B. & C.*—Subcuticulare hysteriiforme, sporis fusiformibus. On shoots of vine. Pennsylvania, Michener. No. 4094.

Growing beneath the cuticle which swells into little hysteriiform pustules; spores oblong, subfusiform, $\cdot 0005$ long.

381. **Phoma pallens.** *B. & C.*—Subcuticulare hysteriiforme; sporophoris sporis utrinque apiculatis sub-æqualibus. On shoots of vine which it renders pallid. Car. Inf. No. 5015. Also on *Celastrum scandens*. Penn. Michener. No. 4127.

Growing beneath the cuticle, sporophores equal in length to the spores which are oblongo-fusiform pointed at either end, $\cdot 0002$ - $\cdot 0003$ long.

382. **Phoma uvicola.** *B. & C.*—Irregulare cuticulâ anguste cinctum, sporis oblongis. On berries of *Vitis*. Car. Inf. No. 3286.

Produced beneath the cuticle, through which it bursts, and by which it is surrounded; spores oblong, $\cdot 0003$ long.

383. **Phoma confluens.** *B. & C.*—Maculis elevatis marginatis, peritheciis confluentibus; sporis brevibus. On branches of vine. No. 5616.

Forming little raised hysteriiform spots with a distinct margin. Perithecia black, confluent; spores shortly oblong, $\cdot 0002$ long.

384. **Phoma ustulatum.** *B. & C.*—Maculis helvolis, peritheciis punctiformibus; sporis utrinque attenuatis. On leaves of *Vitis æstivalis*. No. 4842.

Spots broad, red-brown; perithecia minute punctiform; spores attenuated at either end, shortly fusiform, $\cdot 0003$ long.

* **Phoma radula.** *B. & Br.*—Pennsylv. Michener. No. 4049. On pear. Car. Inf. No. 4998. Spores subfusiform, $\cdot 0005$ long.

385. **Phoma Phytolaccæ.** *B. & C.*—Subcuticula dealbata oriundum; sporis fusiformibus binucleatis. On *Phytolacca*. New Jersey. No. 4702.

Black shining, covered with the bleached cuticle; spores fusiform binucleate, $\cdot 0004$ long, resembling those of *P. pallens*.

386. **Phoma helvolum.** *B. & C.*—Maculis helvolis definitis; peritheciis minutis; sporis minimis. On leaves of some Anonaceous plant. Texas, C. Wright. No. 3901.

Spots definite with a distinct margin reddish brown, perithecia minute; spores shortly oblong, $\cdot 0001$ long.

* **Phoma concentricum.** *Desm.*—On *Yucca*. New England, Russell. No. 5973. Penns., Michener. No. 4141, 4164. Alabama, Peters. No. 4569.

387. **Phoma melaleucum.** *B. & C.*—Subcuticulare nitidum e macula albida oriundum, sporis oblongis. On berberry. New England, Sprague. No. 5274. On *Magnolia tripetala*. Pennsylvania, Michener. No. 4096. On *Aralia spinosa*. Alabama, Peters. No. 5185.

Growing on a pallid spot, subcuticular, shining; spores oblong, $\cdot 0003$ long. In No. 5274 the spores are rather narrower and $\cdot 0004$ long.

388. **Phoma mixtum.** *B. & C.*—Subcorticale sero liberatum, sporophoris sporis utrinque apiculatis sub æqualibus, processibus filiformibus apice curvatis intermixtis. On *Liriodendron*. Car. Inf. No. 4963. On *Viburnum opulifolium*. Penns., Michener. No. 4174.

Produced under the bark in which it forms little pustules, at

length free; sporophores about equal in length to the spores which are shortly fusiform, .00025 long, mixed with filiform processes, about three times as long, curved at the tips.

* **Phoma fibricola.** *B.*—On whitened wood of *Populus dilatata*. Penns., Michener. No. 4241.

389. **Phoma maculare.** *B. & C.*—Maculis orbicularibus brunneis immarginatis peritheciis irregularibus; sporis oblongis subcymbiformibus. On leaves of *Diplopappus*. Alabama, Beaumont. No. 4661.

Forming brown orbicular spots, in the centre of which are seated the irregular perithecia; spores oblong subcymbiform. .0004 long.

390. **Phoma chartarum.** *B. & C.*—Sparsum e subiculo tenero byssoideo oriundum, sporis minimis.

On white paper. Alabama, Beaumont. No. 5106. Perithecia scattered, each springing from some delicate radiating threads; spores very minute, .00012 long, sometimes ejected in the form of a tendril.

There are also a great many other forms in the collection which can scarcely be characterised as there are no very distinctive marks in the spores.

391. **Phoma cinctum.** *B. & C.*—Irregulare depressum materie alba cinctum, sporis oblongis angustis.

On leaves of *Ulmus Americana*. Car. Inf. No. 3791. Perithecia irregular, depressed, surrounded by a white border; spores oblong, narrow, .00027.

* **Leptothyrium Ribis.** *Libert.*—On *Ribes nigrum*. Connecticut. C. Wright. No. 5639. New England. Russell. No. 5943.

In the former the spores are wider at one end, slightly curved, .0008-.0006; in the latter often more curved, and then not dilated at one end, .001 long.

392. **Leptothyrium Celastri.** *B. & C.*—Superficiale orbiculare gregarium, sporis cylindricis.

On twigs of *Celastrum*. New England. Murray. No. 6270. Forming little black orbicular superficial specks; spores cylindrical, .001 long.

* **Leptothyrium Fragariæ.** *Libert.*—Sprague. No. 6241.

393. **Leptothyrium Lychnidis.** *B. & C.*—Maculis pallidis; peritheciis punctiformibus; sporis oblongis utrinque irregularibus.

On *Lychnis Flos cuculi*. Alabama. Peters. No. 4544. Spot pallid, perithecia very minute; spores oblong, hollowed out on either side, .0004 long.

394. **Leptothyrium punctiforme.** *B. & C.*—Sparsum minutum superficiale; sporis oblongis curvalis.

On leaves of *Erigeron*. Massachussets. No. 3387. Scattered



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