

# THE OTTAWA NATURALIST

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VOL. XXIII. OTTAWA, NOVEMBER, 1909 No. 8

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## NEW CONTRIBUTIONS TO CANADIAN BRYOLOGY.

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The collector of the specimens is Professor *John Macoun*, M.A., F.R.S.C., etc., if no other is indicated.

1. *ALSIA CALIFORNICA* (HOOK ET ARN.) SULL.  
Vancouver Island 1908, (also by Dr. Jal. Roll (1888).
2. *CLIMACIUM DENDROIDES* (L.) WEB. ET MOHR \* *KINDBERGII*  
(REN. ET CARD.) GROUT.  
Brighton, October, 1888.
3. *CALLIERGON SUBTURGESCENTES*.

Allied to the last. Resembles *C. turgescens* (T. Jensen) in its julaceous stem, and *C. scorpioides* in its dark brownish color.

Leaves large, broadly oval obtusate obtuse and entire, not decurrent, very densely crowded; only some branch-leaves curved; alar cells large and well-defined, other cells narrow linear; costa generally indistinct. Perichetial leaves long-acuminate subulate and entire. Capsule not large; pedicel about 3 cm. long. Tufts about 10 cm. high. Stem weak. Monoecious.

In a pool at Laggan at 5,200 feet altitude, Rocky Mountains, Alta., July 25th, 1904. No. 45.

4. *CALLIERGON SUBSARMENTOSUM*.

Stem pinnate, brown below the middle. Leaves golden glossy, not reddish and not distinctly decurrent, long-lanceolate and obtuse; alar cells very large and hyaline, reaching to the costa; other cells linear; costa pale vanishing below (but near) the apex. Branch leaves very small. Capsules not seen. Habit of *C. giganteum*. Allied to *C. sarmentosum*.

In wet earth, Shawnigan Lake, Vancouver Island, B.C., June 18th, 1908.