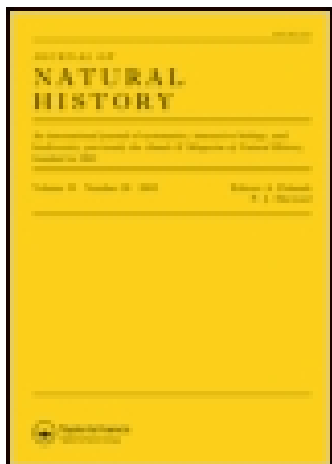


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## Annals and Magazine of Natural History: Series 4

Publication details, including instructions  
for authors and subscription information:  
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### XXI.—Notulæ Lichenologicæ. No. XX

Rev. W.A. Leighton B.A. F.L.S.

Published online: 16 Oct 2009.

To cite this article: Rev. W.A. Leighton B.A. F.L.S. (1868) XXI.—Notulæ  
Lichenologicæ. No. XX, Annals and Magazine of Natural History: Series 4, 1:2,  
133-133, DOI: [10.1080/00222936808695656](https://doi.org/10.1080/00222936808695656)

To link to this article: <http://dx.doi.org/10.1080/00222936808695656>

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XXI.—*Notulæ Lichenologicæ*. No. XX.

By the Rev. W. A. LEIGHTON, B.A., F.L.S.

EVERY lichenist is unfortunately well aware of the great difficulty of preserving specimens of lichens which grow on the earth. Too frequently he finds, on consulting his herbarium, that the earth on which such lichens grew has become dry and crumbled into dust, involving in such disintegration the destruction of the lichen itself, especially when this happens to possess a crustaceous thallus. To remedy this a solution of gum arabic has been sometimes used, but with partially satisfactory results only, inasmuch as the mucilage does not penetrate the earth, but only conglomerates its surface. An effective preparation appears to have been discovered by M. J. M. Norman, of Trömsø, Norway. It consists of a solution of isinglass in spirits of wine, such as is used in the preparation of English adhesive plaster, which a chemist informs me is better known as "Prout's plaster." This composition, when liquefied in a vessel plunged into water of the temperature of 25°–30° C., is greedily imbibed by the earth on which the lichen grows, and becomes inspissated into a solid gelatine at a temperature below 15°. The solution may be applied by a camel's-hair pencil until the earth becomes saturated; but care should be taken that the lichen itself be not moistened with it, for otherwise it would become discoloured. When the surface has become dry, the specimen may be submitted to moderate pressure, which, after some days, produces the requisite hardness and tenacity. The favourable experience of some years encourages M. Norman to recommend this preparation to his fellow lichenists.

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XXII.—*On the Spongiæ ciliatæ as Infusoria flagellata; or Observations on the Structure, Animality, and Relationship of Leucosolenia botryoides, Bowerbank\**. By H. JAMES-CLARK, A.B., B.S., Professor of Natural History in the Agricultural College of Pennsylvania†.

[Plates V., VI., VII.]

I HAVE been engaged like others, for some time past, in endeavouring to clear up the doubt which prevails in the scien-

\* A sketch of the contents of this memoir has already been published in the 'Proceedings of the Boston Society' for June 20, 1866; the 'American Journal of Science' for November 1866, and in the 'Annals' for January 1867.

† From a separate impression from the 'Memoirs read before the Boston Society of Natural History,' vol. i. part 3; communicated by the author.