THE FAIRY-LAND OF SCIENCE

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The Fairy-Land of Science by Arabella B. Buckley

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ARABELLA B. BUCKLEY

THE FAIRY-LAND OF SCIENCE





GLACIER CARRYING DOWN STONES. See p. 119.

Frontietace.

THE

FAIRY-LAND OF SCIENCE.

ARABELLA B. BUCKLEY, Fisher

AUTHOR OF 'A SHORT HISTORY OF NATURAL SCIENCE,' "BUTANICAL TABLES FOR YOUNG STUDENTS," ETC.

ILLUSTRATED.

For they remember yet the talas we told thrus Around the hearth, of fairies, long ago, Wisen they loved still in fancy to behold them Quick dancing earthward in the feathery snew.

"But now the young and fresh imagination Finds traces of their presence everywhere, And peoples with a new and bright creation The clear blue chambers of the sunny air." Folk Live.

NEW YORK:

D. APPLETON AND COMPANY,

I, 3, AND 5 BOND STREET. 1888.

PREFACE.

THE Ten Lectures of which this volume is composed were delivered last spring, in St. John's Wood, to a large audience of children and their friends, and at their conclusion I was asked by many of those present to publish them for a child's reading book.

At first I hesitated, feeling that written words can never produce the same effect as viva-voce delivery. But the majority of my juvenile hearers were evidently so deeply interested that I am encouraged to think that the present work may be a source of pleasure to a wider circle of young people, and at the same time awaken in them a love of nature and of the study of science.

The Lectures have been entirely rewritten from the short notes used when they were delivered. With the exception of the first of the series, none of them have any pretensions to originality, their object being merely to explain well-known natural facts in simple and pleasant language. Throughout the whole book I have availed myself freely of the leading popular works on science, but have found it impossible to give special references, as nearly all the

matter I have dealt with has long been the common property of scientific teachers.

I am much indebted to Mr. J. Cooper for the zeal and assiduity he has shown in carrying out my suggestions for illustrations. All the engravings, with one exception, were executed under his superintendence.

ARABELLA B. BUCKLEY.

Christmas, 1878.

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FAIRY-LAND OF SCIENCE.

LECTURE I.

HOW TO ENTER IT; HOW TO USE IT; AND HOW TO ENJOY IT.



probably look upon science as a bundle of dry facts, while fairy-land is all that is beautiful, and full of