
Popular Lectures and Addresses, Volume 2

Kelvin Baron William

**Title: Popular Lectures and Addresses,
Volume 2**

Author: Kelvin Baron William

This is an exact replica of a book. The book reprint was manually improved by a team of professionals, as opposed to automatic/OCR processes used by some companies. However, the book may still have imperfections such as missing pages, poor pictures, errant marks, etc. that were a part of the original text. We appreciate your understanding of the imperfections which can not be improved, and hope you will enjoy reading this book.



Book Renaissance

www.ren-books.com





49

300



POPULAR LECTURES
AND
ADDRESSES

VOL. II



~~W. Thomson~~
NATURE SERIES

POPULAR LECTURES

AND

ADDRESSES

BY

SIR WILLIAM THOMSON (BARON KELVIN)

P.R.S., LL.D., D.C.L., &c.

PROFESSOR OF NATURAL PHILOSOPHY IN THE UNIVERSITY OF GLASGOW, AND
FELLOW OF ST. PETER'S COLLEGE, CAMBRIDGE

IN THREE VOLUMES

VOL. II

GEOLOGY AND GENERAL PHYSICS

WITH ILLUSTRATIONS

33721
19/5/94

London

MACMILLAN AND CO.

AND NEW YORK

1894

Q
171
KH5
v.2

RICHARD CLAY AND SONS, LIMITED,
LONDON AND BUNGAY.

PREFACE.

Of the reason why Volume III. appeared before Volume II. nothing need be said here, as it was stated in the Preface to Volume III.

The first half of the present volume contains the papers relating to geological subjects referred to in that statement. The remainder of the volume consists of lectures and addresses on various subjects of general physics, given between 1866 and the end of 1893, which have not been included in Vols. I. or III.

KELVIN.

UNIVERSITY, GLASGOW.

February 2, 1894.



CONTENTS.

	PAGE
PROTECTION OF VEGETATION FROM COLD	1
<i>Paper read before the Royal Society of Edinburgh, April 4, 1864.</i>	
THE "DOCTRINE OF UNIFORMITY" IN GEO- LOGY BRIEFLY REFUTED	6
<i>Paper read before the Royal Society of Edinburgh, December 18, 1865.</i>	
APPENDIX.—ESTIMATE OF PRESENT ANNUAL LOSS OF HEAT FROM THE EARTH	7
ON GEOLOGICAL TIME	10
<i>Address delivered before the Geological Society of Glasgow, February 27, 1868.</i>	
APPENDIX.—ON THE OBSERVATIONS AND CALCU- LATIONS REQUIRED TO FIND THE TIDAL RETARDA- TION OF THE EARTH'S ROTATION	65
ON GEOLOGICAL DYNAMICS	73
<i>Address to the Geological Society of Glasgow, April 5, 1869.</i>	

	PAGE
PART I.—REPLY TO PROFESSOR HUXLEY'S ADDRESS TO THE GEOLOGICAL SOCIETY OF LONDON, OF FEBRUARY 19, 1869	73
PART II.—ON THE ORIGIN AND TOTAL AMOUNT OF PLUTONIC ENERGY	114
PART III.—NOTE ON THE METEORIC THEORY OF THE SUN'S HEAT	127
<i>From Report of the Glasgow Philosophical Society's Meeting of March 24, 1869.</i>	
PRESIDENTIAL ADDRESS TO THE BRITISH ASSOCIATION, EDINBURGH, 1871	132
PRESIDENTIAL ADDRESS TO THE SOCIETY OF TELEGRAPH ENGINEERS, 1874	206
<i>At its Twentieth Ordinary General Meeting, held on Wednesday, the 14th January, 1874.</i>	
REVIEW OF EVIDENCE REGARDING THE PHYSICAL CONDITION OF THE EARTH	238
<i>Being extract from Presidential Address to the Mathematical and Physical Section of the British Association, Glasgow, September 7th, 1876.</i>	
GEOLOGICAL CLIMATE	273
<i>Being a Paper read before the Geological Society of Glasgow, February 22, 1877.</i>	
THE INTERNAL CONDITION OF THE EARTH; AS TO TEMPERATURE, FLUIDITY, AND RIGIDITY	299
<i>Being Paper read before the Geological Society of Glasgow, February 14, 1878.</i>	