
TABLE OF CONTENTS

FOREWORD by Professor George Sarton	vii
INTRODUCTION	xix
I. THOMAS HARRIOT	
(1560–July 2, 1621. <i>Naturalist and Mathematician</i>)	
Bringing the Seeds of Science to America	I
II. BENJAMIN FRANKLIN	
(Jan. 17, 1706–April 17, 1790. <i>Natural Philosopher</i>)	
The First Fruit of American Science	21
III. BENJAMIN THOMPSON	
(Mar. 23, 1753–Aug. 24, 1814. <i>Physicist</i>)	
Science Faces the Tumult of the American Revolution	46
IV. THOMAS COOPER	
(Oct. 22, 1759–May 12, 1839. <i>Chemist</i>)	
Science Advances Slowly in the Newborn Republic	69
V. CONSTANTINE SAMUEL RAFINESQUE	
(Oct. 22, 1783–Sept. 18, 1840. <i>Botanist</i>)	
American Science Ventures Out Across New Frontiers	92

- VI. THOMAS SAY
(July 27, 1787—Oct. 10, 1834. *Entomologist*)
Science Caught in the First Uprush of an Industrial Revolution 115
- VII. WILLIAM T. G. MORTON
(Apr. 9, 1819—July 15, 1868. *Anesthetist*)
America Makes Medical History 137
- VIII. JOSEPH HENRY
(Dec. 17, 1797—May 13, 1878. *Physicist*)
The United States Government Establishes a New Incubator for Science 160
- IX. MATTHEW FONTAINE MAURY
(Jan. 14, 1806—Feb. 1, 1873. *Hydrographer*)
America Contributes to the Science of the Sea 185
- X. LOUIS J. R. AGASSIZ
(May 20, 1807—Dec. 12, 1873. *Biologist*)
The Repercussions of Darwinism in the United States 208
- XI. JAMES DWIGHT DANA
(Feb. 12, 1813—April 14, 1895. *Geologist*)
Federal and State Surveys Aid the Advances of Science 231
- XII. OTHNIEL CHARLES MARSH
(Oct. 29, 1831—Mar. 18, 1899. *Paleontologist*)
Dinosaurs and other Fossils of Our Gilded Age 250

- XIII. J. WILLARD GIBBS
 (Feb. 11, 1839—April 28, 1903. *Mathematical
 Physicist*)
 America in the New World of Chemistry 276
- XIV. SAMUEL PIERPONT LANGLEY
 (Aug. 22, 1834—Feb. 27, 1906. *Aeronautical
 Engineer*)
 American Science Gives Men Wings 298
- XV. ALBERT ABRAHAM MICHELSON
 (Dec. 19, 1852—May 9, 1931. *Physicist*)
 America Participates in the Revolution of Modern
 Physics 321
- XVI. THOMAS HUNT MORGAN
 (Sept. 25, 1866— . *Geneticist*)
 American Science Comes of Age 346
- XVII. HERBERT McLEAN EVANS
 (Sept. 23, 1882— . *Anatomist*)
 American Science Pioneers in Two New Related
 Fields 387
- XVIII. EDWIN POWELL HUBBLE
 (Nov. 20, 1889— . *Astronomer*)
 Giant Instruments and Huge Foundations for
 American Science 422

- XIX. ERNEST ORLANDO LAWRENCE
(Aug. 8, 1901- . *Nuclear Physicist*)
The Turn of the Tide in World Science 457
- XX. FUTURE OF SCIENCE IN AMERICA 491