

Contents

About the Editor	viii
About the Contributors	ix
Acknowledgements	xvi
Introduction	1
<i>Bernard Lightman</i>	
1 Historiography of the History of Science	7
<i>Lynn K. Nyhart</i>	
PART I ROLES	23
2 Learned Man and Woman in Antiquity and the Middle Ages	25
<i>Nathan Sidoli</i>	
3 Go-Betweens, Travelers, and Cultural Translators	39
<i>Kapil Raj</i>	
4 The Alchemist	58
<i>Tara Nummedal</i>	
5 The Natural Philosopher	71
<i>Peter Dear</i>	
6 The Natural Historian	84
<i>Kristin Johnson</i>	
7 Invisible Technicians, Instrument Makers, and Artisans	97
<i>Iwan Rhys Morus</i>	
8 Scientific illustrators	111
<i>Valérie Chansigaud</i>	
9 The Human Experimental Subject	126
<i>Anita Guerrini</i>	

10	Amateurs <i>Katherine Pandora</i>	139
11	The Man of Science <i>Paul White</i>	153
12	The Professional Scientist <i>Cyrus C. M. Mody</i>	164
PART II PLACES AND SPACES		179
13	The Medieval University <i>Steven J. Livesey</i>	181
14	The Observatory <i>Robert W. Smith</i>	196
15	The Court <i>Bruce T. Moran</i>	210
16	Academies and Societies <i>Denise Phillips</i>	224
17	Museums and Botanical Gardens <i>Lukas Rieppel</i>	238
18	Domestic Space <i>Donald L. Opitz</i>	252
19	Commercial Science <i>Paul Lucier</i>	268
20	The Field <i>Robert E. Kohler and Jeremy Vetter</i>	282
21	The Laboratory <i>Catherine M. Jackson</i>	296
22	Modern School and University <i>Heike Jöns</i>	310
PART III COMMUNICATION		329
23	Manuscripts <i>Joyce van Leeuwen</i>	331
24	The Printing Press <i>Nick Wilding</i>	344
25	Correspondence Networks <i>Brian Ogilvie</i>	358
26	Translations <i>Marwa Elshakry and Carla Nappi</i>	372

27 Journals and Periodicals <i>Aileen Fyfe</i>	387
28 Textbooks <i>Josep Simon</i>	400
29 Lectures <i>Diarmid A. Finnegan</i>	414
30 Film, Radio, and Television <i>David A. Kirby</i>	428
PART IV TOOLS OF SCIENCE	443
31 Timing Devices <i>Rory McEvoy</i>	445
32 Weights and Measures <i>Hector Vera</i>	459
33 Calculating Devices and Computers <i>Matthew L. Jones</i>	472
34 Specimens and Collections <i>Mary E. Sunderland</i>	488
35 Recording Devices <i>Jimena Canales</i>	500
36 Microscopes <i>Boris Jardine</i>	515
37 Telescopes <i>Jim Bennett</i>	530
38 Prisms, Spectroscopes, Spectrographs, and Gratings <i>Klaus Hentschel</i>	543
39 Diagrams <i>Charlotte Bigg</i>	557
40 Three Dimensional Models <i>Joshua Nall and Liba Taub</i>	572
Index	587