

Content

Preface / 7

A Note on Terminology / 11

1 Introduction / 13

- 1.1 Definition of the Theme / 13
- 1.2 Alchemy and Its History / 18
- 1.3 The Question of the Definition of Alchemy / 34
- 1.4 Alchemy as a Practical Activity / 41
- 1.5 The Transmission of Knowledge in Alchemy / 44
- 1.6 Alchemy and Crafts / 48
- 1.7 The Social Position of Alchemists / 50

2 The Alchemical Laboratory as a Site of Research: Theory and Experimentation / 57

- 2.1 Sources for the Study of Alchemical Laboratories / 57
 - 2.1.1 Material Sources on Laboratories / 60
 - 2.1.2 Written Sources on Laboratories / 68
 - The Works of Alchemists Documenting Their Activity* / 69
 - Other Written Sources of Documentary Character* / 78
 - Written Sources from Technologically Related Endeavours* / 80
 - 2.1.3 Pictorial and Iconographic Sources / 83
- 2.2 Examples of the Organisation of Alchemical Laboratories / 84
 - 2.2.1 Wolfgang II of Hohenlohe and the Laboratory at Weikersheim Castle / 85
 - 2.2.2 Moritz of Hesse-Kassel and His Laboratories / 87
 - 2.2.3 The Laboratories of August of Saxony and Anna of Saxony in Dresden and Annaberg / 94

- 2.2.4 Friedrich I, Duke of Württemberg, and Laboratories in Stuttgart / 105
- 2.2.5 Ottheinrich of Pfalz-Neuburg and Alchemy at His Court / 108
- 2.2.6 Rudolf II and the Laboratories at Prague Castle / 114
- 2.3 The Equipment of a Laboratory / 124
 - 2.3.1 Introductory Remarks / 124
 - 2.3.2 Furnaces and Ovens / 132
 - 2.3.3 Containers and Tools Used in a Laboratory / 176
 - 2.3.4 Various Devices and Tools / 195
- Appendix: Johann Daniel Mylius, *On the Furnaces and Vessels of the Philosophers*. Tab. I–XX / 197

3 The Development of the Iconography of the Laboratory / 241

- 3.1 An Overview of Alchemical Iconography / 244
- 3.2 Depicting Laboratory Equipment in the Context of Alchemy and Related Endeavours / 276
 - 3.2.1 Medieval Alchemical Manuscripts / 277
 - 3.2.2 The Earliest Printed Books on Distillation Apparatus and Operations in the 16th Century / 299
 - 3.2.3 Pseudo-Geber's Work and Its Editions of 1486/88–1541 / 308
 - 3.2.4 Mining and Assaying Literature of the 16th Century / 318
 - 3.2.5 Vannoccio Biringuccio and *De la Piro-technia* / 322
 - 3.2.6 Georgius Agricola and *De re metallica* / 326
 - 3.2.7 Lazarus Ercker and *Beschreibung Allerfürnemisten Mineralischen Ertzt* / 336
 - 3.2.8 Andreas Libavius and *Alchymia recognita* with Commentary (1606) / 348
 - 3.2.9 From Le Fèvre's *Traité de la Chymie* (1660) up to 'Das laboratorium Chemicum...' in Altdorf (ca. 1720) / 364

4 Types of Depiction of the Theme of the Alchemist in the Laboratory / 379

- 4.1 The Depiction of the Alchemist at Work in the Laboratory in Original Sources / 379
 - 4.1.1 Manuscript 2872 from the Bibliothèque de l'Arsenal / 380
 - 4.1.2 Thomas Norton's *The Ordinal of Alchemy* / 381
 - 4.1.3 The Alchemical Poem *Wegweisser* / 391
 - 4.1.4 The 'Oratory and Laboratory' of Heinrich Khunrath / 394
- 4.2 Jan van der Straet and the Laboratory in the Palazzo Vecchio in Florence / 407
- 4.3 The Depiction of the Alchemist in a Laboratory in Genre Painting / 422
 - 4.3.1 Satirical Depictions of Alchemists / 434
 - 4.3.2 The Depiction of the Alchemist as a Learned Man and Scholar / 440

- 4.3.3 The Organisation of the Laboratory – a Comparison between Alchemical Depictions and Genre Paintings / 446
 - Thomas Wijck and Heinrich Khunrath* / 446
 - Cornelis Bega and the Drawing of an Alchemist from Manuscript Hs 16752* / 453
- 4.3.4 Alchemical Apparatus and Other Laboratory Equipment in Genre Painting / 456
- 4.3.5 The Book and Its Symbolism in Alchemical Context / 469
- 4.4 A Semblance of Reality and a Glimpse behind the Mirror / 473

Conclusion / 475

- Illustrations and Credits / 483
- Libraries, Archives and Museums / 509
- Sources and Bibliography / 511
- Name Index / 553
- Subject Index / 561