The Making of the Chemist
The Social History of Chemistry in Europe, 1789–1914

Edited by

DAVID KNIGHT & HELGE KRAGH
## Contents

- **Acknowledgements**  
  *page vii*

- **Preface by David Knight**  
  *ix*

- **Map of Europe ca 1815**  
  *xviii*

- **Map of Europe ca 1914**  
  *xx*

### Part 1: The big three

1. The organisation of chemistry in nineteenth-century France  
   *Maurice Crosland*  
   *page 3*

2. The chemistry profession in France: the Société Chimique de Paris/de France 1870–1914  
   *Ulrike Fell*  
   *page 15*

3. Two factions, one profession: the chemical profession in German society 1780–1870  
   *Ernst Homburg*  
   *page 39*

4. Origins of and education and career opportunities for the profession of ‘chemist’ in the second half of the nineteenth century in Germany  
   *Walter Wetzel*  
   *page 77*

5. Chemistry on an offshore island: Britain, 1789–1840  
   *David Knight*  
   *page 95*

6. ‘A plea for pure science’: the ascendancy of academia in the making of the English chemist, 1841–1914  
   *Gerrylynn K. Roberts*  
   *page 107*

   *William H. Brock*  
   *page 121*

### Part 2: Medium developed countries

8. Development of chemistry in Italy, 1840–1910  
   *Luigi Cerruti and Eugenio Torracca*  
   *page 133*

9. The evolution of chemistry in Russia during the eighteenth and nineteenth centuries  
   *Nathan M. Brooks*  
   *page 163*

10. Seeking an identity for chemistry in Spain: medicine, industry, university, the liberal state and the new ‘professionals’ in the nineteenth century  
    *Agusti Nieto-Galan*  
    *page 177*
Contents

11 The profession of chemist in nineteenth-century Belgium
   Geert Vanpaemel and Brigitte Van Tiggelen 191

12 Chemistry in Ireland  David Knight and Gerrylynn K. Roberts 207

13 Chemistry on the edge of Europe: growth and decline in Sweden
   Colin A. Russell 219

Part 3: On the periphery

14 Out of the shadow of medicine: themes in the development of
   chemistry in Denmark and Norway  Helge Kragh 235

15 Chemistry and the scientific development of the country: the nine-
   teenth century in Portugal  Antonio M. Amorim da Costa 265

16 The transmission to and assimilation of scientific ideas in the
   Greek-speaking world, ca 1700–1900: the case of chemistry
   Kostas Gavroglu 289

17 The first chemists in Lithuania  Mudis Šalkauskas 305

18 Individuals, institutions, and problems: a review of Polish chemistry
   between 1863 and 1918  Stefan Zamecki 319

Afterword: The European commonwealth of chemistry  Helge Kragh 329

Notes on contributors 343

Index 349