

THE CHEMICAL REVOLUTION

HSS102 HISTORY OF SCIENCE

INTRODUCTION

- Unlike the historiographical attention to physical and life sciences, the history of Chemistry was often ignored by historians of science. Until recently, the Chemical Revolution was the Cinderella of 'scientific revolutions' in the discipline of the history of science.
- There are several reasons for this comparative neglect. What is considered chemical today originated in variety of different contexts and places. Alchemists, apothecaries (i.e. those who prepared and sold medicines and drugs), doctors, dyers and metal workers all engaged in activities that we might now think of as having to do with the origins of Chemistry. This made the story of a unified history of Chemistry with definitive origins difficult.
- Secondly, until recently, historians of science have regarded themselves as historians of ideas. From this perspective, practical sciences such as Chemistry have often simply seemed less worthy of historical attention. Physics and Biology have had their big philosophical ideas. There seem to be no clear equivalents in the history of Chemistry.
- In general, the Chemical Revolution is squarely located in the life and activities of French Chemist Antoine Lavoisier (1743-1794) during the 18th century. However, there were predecessors like Robert Boyle (1627-1691), Paracelsus (1493-1541), Georg Stahl (1659-1734) who regarded themselves as committed to the New Science.

CHEMISTRY UNREFORMED?

- Alchemy and metallurgy were practiced actively during the 16th and 17th centuries. The practitioners regarded themselves as being at the forefront of the New Science during the 16th and 17th centuries.

Chemical Revolution

Yan Bai



Chemical Revolution:

The Overthrow of the Phlogiston Theory James Bryant Conant, 1950 [The Historiography of the Chemical Revolution](#) John G McEvoy, 2015-10-06 This study offers a critical survey of past and present interpretations of the Chemical Revolution designed to lend clarity and direction to the current ferment of views **Matter and Method in the Long Chemical Revolution** Victor D. Boantz, 2016-05-06 The seventeenth century scientific revolution and the eighteenth century chemical revolution are rarely considered together either in general histories of science or in more specific surveys of early modern science or chemistry This tendency arises from the long held view that the rise of modern physics and the emergence of modern chemistry comprise two distinct and unconnected episodes in the history of science Although chemistry was deeply transformed during and between both revolutions the scientific revolution is traditionally associated with the physical and mathematical sciences whereas modern chemistry is seen as the exclusive product of the chemical revolution This historiographical tension between similarity in form and disparity in historical content of the two events has tainted the way we understand the rise of modern chemistry as an integral part of the advent of modern science Against this background **Matter and Method in the Long Chemical Revolution** examines the role of and effects on chemistry of both revolutions in parallel using chemistry during the chemical revolution to illuminate chemistry during the scientific revolution and vice versa Focusing on the crises and conflicts of early modern chemistry and their retrospectively labeled losing parties the author traces patterns of continuity in matter theory and experimental method from Boyle to Lavoisier and reevaluates the disciplinary relationships between chemists mechanists and Newtonians in France England and Scotland Adopting a unique approach to the study of the scientific and chemical revolutions and to early modern chemical thought and practice in particular the author challenges the standard revolution centered history of early modern science and reinterprets the rise of chemistry as an independent discipline in the long eighteenth century [Matter and Method in the Long Chemical Revolution](#) Dr Victor D Boantz, 2013-09-28 The seventeenth century scientific revolution and the eighteenth century chemical revolution are rarely considered together either in general histories of science or in more specific surveys of early modern science or chemistry This tendency arises from the long held view that the rise of modern physics and the emergence of modern chemistry comprise two distinct and unconnected episodes in the history of science Although chemistry was deeply transformed during and between both revolutions the scientific revolution is traditionally associated with the physical and mathematical sciences whereas modern chemistry is seen as the exclusive product of the chemical revolution This historiographical tension between similarity in form and disparity in historical content of the two events has tainted the way we understand the rise of modern chemistry as an integral part of the advent of modern science Against this background **Matter and Method in the Long Chemical Revolution** examines the role of and effects on chemistry of both revolutions in parallel using chemistry during the chemical revolution to illuminate chemistry during the scientific revolution and vice versa

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The Historiography of the Chemical Revolution John G McEvoy,2015-10-06 This study offers a critical survey of past and present interpretations of the Chemical Revolution designed to lend clarity and direction to the current ferment of views The Overthrow of the Phlogiston Theory

James Bryant Conant,1950 *Drug and Chemical Markets* ,1916 **Lavoisier and the Chemical Revolution** John

Maxson Stillman,2005-12-01 This scarce antiquarian book is a facsimile reprint of the original Due to its age it may contain imperfections such as marks notations marginalia and flawed pages Because we believe this work is culturally important we have made it available as part of our commitment for protecting preserving and promoting the world s literature in affordable high quality modern editions that are true to the original work Drug & Chemical Markets ,1926 Chemical, Color and Oil Record ,1927 Chemicals ,1927

The Chemical Revolution Archibald Clow,Nan L. Clow,1992 This important book examines the early chemical industry in transition from an economy dependent on wood and water to a manufacturing powerhouse based on coal and iron Beginning with the first chemical works for producing sulfuric acid in 1749 the historical survey culminates with James Beaumont Neilson heating the blast supplied to iron surfaces in 1830 Between these events are perspectives and accounts that will fascinate chemists and historians alike The Magazine of Business Arch Wilkinson

Shaw,Edward John Mehren,1927 **Proceedings of the Annual Convention** National Fertilizer Association

(1925-1955),National Fertilizer Association (1925-1955),.1930 *Circular* ,1927 **The Chemical News and Journal of Industrial Science** ,1930 **The Chemical News and Journal of Physical Science** ,1913 The Magazine of Business ,1927 **The Chemical Age** ,1925 **Chemical Age** ,1923

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