

## Philatelic Ramble Through Chemistry

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The Birth of the 3rd Dimension in Chemistry  
The Möbius Strip Topology  
Chemistry as a Game of Molecular Construction  
Hominatio  
Liebig's Annalen/Recueil  
Robert Burns Woodward  
Chemische Berichte/Recueil  
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The Intellectual repository for the New Church. (July/Sept. 1817). [Continued as] The Intellectual repository and New Jerusalem magazine. Enlarged ser., vol.1-28  
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this is not a history of chemistry which uses stamps instead of the usual illustrations but a collection of short essays and comments on such chemistry as can be found on postage stamps and other philatelic items in other words the choice of topics is dictated by the philatelic material available with the necessary consequence that important parts of chemical history will be missing for the simple reason that they have not found their way onto postage stamps thus the reader may find detailed comments on lesser known chemists such as wilhelm august lampadius who has been honoured with two stamps by the german post office but hardly anything on such luminaries as robert bunsen who have not been deemed

worthy of a commemorative issue

this contributed volume is based on presentations made at the 2024 symposium on the sesquicentennial of the independent proposals of the tetrahedral carbon by van t hoff and le bel 1874 presented to the division of the history of chemistry of the american chemical society in march 2024 in 1874 the dutch chemist jacobus henricus van t hoff 1852 1911 and the french chemist joseph achille le bel 1847 1930 independently proposed that the phenomenon of optical activity could be rationalized on the basis of non superimposable mirror image molecules in particular the tetrahedral carbon atom the book features chapters dedicated to the life and work of le bel and the history of stereochemistry the expansion of the van t hoff le bel theory to elements beyond carbon such as metals and chiral centers based on sulfur and selenium is also explored additionally the book discusses the visualization of organic molecules in three dimensions through molecular models the limits of bonding and stereochemistry in organic molecules and the role of crystallography in stereochemistry development specific topics include hydrocarbons with severely distorted geometry the quantum chemical revolution the effects of substituents on tetrahedral carbons the walden inversion and the fischer elucidation of monosaccharide configurations a chapter by kahr and rossi includes the only english translation of the undergraduate thesis of the world renowned author primo levi a jewish italian born chemist and holocaust survivor and provides historical and scientific context the book also examines the public celebration of stereochemistry through postage stamps this title offers a comprehensive overview of the evolution and significance of stereochemistry in both chemistry and scientific thought serving as a valuable resource for students and researchers interested in history of chemistry topics

in the 19th century pure mathematics research reached a climax in germany and carl friedrich gauss 1777 1855 was an epochal example august ferdinand möbius 1790 1868 was his doctoral student whose work was profoundly influenced by him in the 18th century it had been mostly the french school of applied mathematics that enabled the rapid developments of science and technology in europe how could this shift happen it can be argued that the major reasons were the devastating consequences of the napoleonic wars in central europe leading to the total defeat of prussia in 1806 immediately following far reaching reforms of the entire state system were carried out in prussia and other german states also affecting the educational system it now guaranteed freedom of university teaching and research this attracted many creative people with new ideas enabling the golden age of pure mathematics and fundamental theory in physical sciences möbius legacy reaches far into today s sciences arts and architecture the famous one sided möbius strip is a paradigmatic example of the ongoing fascination with mathematical topology this is the first book to present numerous detailed case studies on möbius topology in science and the humanities it is written for those who believe in the power

of ideas in our culture experts and laymen alike

chemistry as a game of molecular construction the bond click way utilizes an innovative and engaging approach to introduce students to the basic concepts and universal aspects of chemistry with an emphasis on molecules beauty and their importance in our lives offers a unique approach that portrays chemistry as a window into mankind s material chemical essence reveals the beauty of molecules through the click method a teaching methodology comprised of the process of constructing molecules from building blocks styles molecular construction in a way that reveals the universal aspect of chemistry allows students to construct molecules from the simple hydrogen molecule all the way to complex strands of dna thereby showing the overarching unity of matter provides problems sets and solutions for each chapter

the historical achievements in organic natural product synthesis can be recognized most clearly in the research accomplishments of albert eschenmoser for example his work on the chemical synthesis of vitamin b12 defined the frontier in organic natural product synthesis and profoundly influenced the science of organic chemistry in addition to revealing the beautiful reaction pathways leading to compounds of great biochemical significance albert eschenmoser has contributed innovative methods of outstanding utility for organic synthesis few individuals have so fundamentally influenced the science of organic chemistry as albert eschenmoser has over the years a sizable fraction of albert eschenmoser s work has been published in *Helvetica Chimica Acta* hence the decision of the editor to produce a special issue of the journal on the occasion of albert eschenmoser s 75th birthday celebrated on august 5 2000 the highly impressive set of 67 original research papers submitted in response to the editor s invitation could not for obvious technical reasons be accommodated in a single issue and were thus divided over the august and september issues the international reaction to this tribute has been so overwhelmingly enthusiastic that the two issues have been combined in this single volume for separate publication

robert burns woodward was the star of 20th century organic chemistry an mit graduate by age 19 woodward s ingenious notions about organic synthesis and his artful methodology were astounding he is most famed for his synthesis of vitamin b12 which he undertook with albert eschenmoser and for the orbital symmetry rules he developed with roald hoffmann this volume presents woodward s most celebrated papers and lectures including the famous cope lecture insightful commentaries and rarely seen photographs are also included

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