

## History of Polyolefins The Worlds Most Widely Used Polymers Chemists and Chemistry



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**(Marlin Bergstrom)**

## HISTORY OF POLYOLEFINS THE WORLDS MOST WIDELY USED POLYMERS CHEMISTS AND CHEMISTRY

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Springer. Paperback. Book Condition: New. Paperback. 336 pages. Dimensions: 9.2in. x 6.1in. x 0.8in. The word Polyethylene was probably first pronounced in a lecture which M. P. E. Berthelot delivered on April , 27, 1863 to the Chemical Society in Paris, reporting on the polymerization of various simple organic compounds (1). Much later this work appeared twice in the literature before the classical ICI breakthrough in the 1930s which is so colorfully described in Ballards lecture. Once it came up at the end of the last century when H. von Pechmann obtained a white flocculant material from the decomposition of diazomethane which, one year later, was termed to be polymethylene - (CH ) - from E. Bamberger 2 and F. Tschiemer (1). At that time the investigators were disappointed about this product because it was not what they had expected to find in their experiments. As a result any further work was discontinued. The second time that the word polyethylene appeared in the literature to describe a white solid powder was in 1930 when C. S. Marvel and M. E. P. Friedericks (2) attempted to prepare alkylated As compounds in which all five valencies were covalently bonded to five monovalent-alkyl groups. They reacted Tetra-ethyl-arsenium bromide with butyllithium and expected to get tetra ethyl butyl arsenium. Instead they obtained LiBr AsEt<sub>3</sub> gaseous products. Delicate and somewhat time-consuming analysis gave a surprising result: ethane and C s were there in the 4 expected quantities but ethylene was missing - or almost missing - in the gas mixture. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



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