GENEALOGY DATABASE ENTRY

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Marvel, Carl Shipp ("Speed")

1894 - 1988

DEGREE: PhD DATE: 1920 PLACE: Illinois

TEACHER/RESEARCH ADVISOR: Noyes, W. A.

pioneer in the synthesis and structure of polymers and discovered many new plastics, elastomers, and fibers; first to polymerize ethylene with organolithium catalysts; proved that the monomers in polyvinyl chloride are arranged in a head-to-tail fashion; during World War II, headed a group of chemists, numbering a hundred at its peak, who worked as part of the US government's synthetic rubber program; developed the cold rubber process for American industry, building on information obtained from German industry after the war; developed cyclopolymerization to prepare high-temperature polymers for the space program -- one product, polybenzimidazoles or PBI's, became, in 1980, the first new man-man-made fiber to be produced commercially in nearly a decade.

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