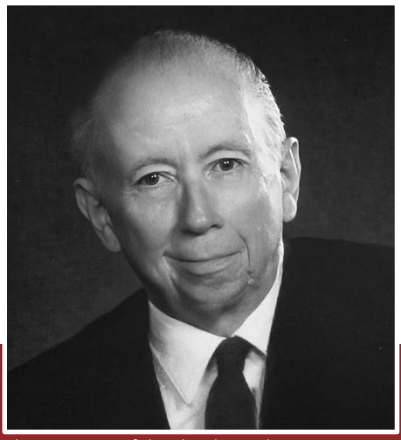

Photo courtesy of the Alstadt Family

Donald Alstadt

Chemlok® Rubber-to-Metal Adhesive System

U.S. PATENT NO. 2,900,292: Bonding rubber to metal

Inducted in 2026 ***Born: July 29, 1921*** ***Died: Feb. 19, 2007***

Chemist Donald Alstadt invented Chemlok®, a revolutionary rubber-to-metal adhesive system that is used across many industries, including the automotive, aerospace, agriculture, off-highway, defense and energy markets. Today, Chemlok and Chemlok-derived technologies are used in almost every vehicle in the world.

Full Bio: https://www.invent.org/inductees/donald-alstadt

Primary Connections:

- Lord Corp.: President; Chair and CEO; Research Chemist; 1943-2000
- Massachusetts Institute of Technology: Visiting Scientist

Education:

- University of Pittsburgh: B.S., Chemistry and Physics, 1943

Key Memberships/Awards:

- Polymer Research Institute (PRI) of Polytechnic University (now part of NYU Tandon School of Engineering): Herman F. Mark Technology Medal, 2000
- Royal Swedish Academy of Sciences: Member
- Allegheny College: Honorary Doctorate
- Thiel College: Honorary Doctorate
- Edinboro University: Honorary Doctorate

Things You Should Know:

- Alstadt was born in Erie, Pennsylvania, in 1921.
- At Lord Corp. in 1950, he began to investigate the characteristics of adhesion, including surface thermodynamics, polymer structure and the effect of processing variables.
- Alstadt connected with scientists at leading institutions to explore breakthroughs in polymer chemistry and what became known as materials science. He emerged as a global leader in understanding the chemistry of bonding rubber to metal.
- Passionate about education, Alstadt contributed to many academic endowments and workshops.
- He served on national boards and committees dedicated to promoting research collaborations between academia and industry, and improving America's competitiveness through innovation.
- He was a member of the Atlantic Council, the Faraday Society of London, the American Chemical Society and the Royal Society of Chemistry in England.
- In 2009, the American Chemical Society's Rubber Division named Chemlok one of the innovations that shaped the rubber industry.
- Programs and chairs at the California Institute of Technology, Duke University, Gannon University and Penn State Behrend are named in Alstadt's honor.