DOW CORNING

## 1 GENERATION

### GOLDEN AGE OF INORGANICS (1897-1920)

**1897** The Dow Chemical Company is incorporated.

**1898** Dow's first commercial-scale production of bleach begins.

**1900** Midland Chemical Company merges into Dow.

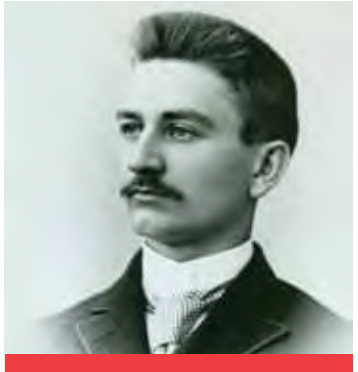
**1908** Dow's agricultural chemicals division is established based on a spray for fruit trees.

**1913** H.H. Dow announces the company will exit the bleach business. The focus shifts to the value of chlorine as a raw material.

**1916** Dow first markets calcium chloride, magnesium metal and acetylsalicylic acid.

**1918** Dow adopts its diamond trademark.

**Mill where Dow set up his laboratory and bromine process in 1890**
*Midland County Historical Society photo.*



**Herbert H. Dow at the age of 22**
*The Herbert H. and Grace A. Dow Foundation*

## 2 GENERATION

### A SHIFT TO ORGANIC CHEMISTRY (1921-1940)

**1928** Styrene and Saran are developed.

**1929** Dow hires its first woman researcher, Sylvia Stoesser.

**1930** Dow founder H.H. Dow dies, and Willard H. Dow succeeds his father as president of Dow.

J. Franklin Hyde investigates the possibility of developing plastics with the properties of glass. Silicone combines the advantages of both materials.

**1934** The Ethyl-Dow plant begins the first commercial extraction of bromine from seawater.

**1935** Dow enters the plastics business with the introduction of ETHOCEL™ ethylcellulose resins.

**1937** Dow stock is listed for the first time on the New York Stock Exchange.

STYRON™ polystyrene resin is introduced.

**1940** Dow purchases land near Freeport, Texas, and begins to construct a plant. Today the Freeport site is the largest integrated chemical manufacturing complex in the Western Hemisphere.

**Dr. Sylvia Stoesser**
*Midland County Historical Society photo*

**Dr. J. Franklin Hyde**
*Dow Corning photo.*

## 3 GENERATION

### THE WAR YEARS AND THE RISE OF PLASTICS AND PETROCHEMICALS (1941-1960)

**1942** Dow's first international expansion begins with Dow Chemical Canada, Ltd.

**1943** Dow and Corning Glass form Dow Corning, a joint venture to create silicone products.

**1945** The Dow Corning plant in Midland begins operation, and Earl Warrick invents silicone rubber.

**1953** Dow introduces Saran Wrap® for household use.

**1957** Dow Corning acquires the technology to manufacture polycrystalline silicon.

**1958** Dow Corning's Edwin Plueddemann, known as "Dr. Glue," develops the first commercial silicone adhesive.

**1959** Dow Corning implements technology to manufacture hyperpure polycrystalline silicon to produce materials for computer chips, and the first fully integrated polycrystalline silicon plant is established in Hemlock, Michigan.

**Dow Corning Midland laboratory**
*Dow Corning photo.*

## 4 GENERATION

### GOING GLOBAL AND THE FIRST ERA OF COMMERCIALIZATION (1961-1977)

**1963** Dow Corning files its 1,000th U.S. patent application.

**1964** Handi-Wrap® plastic film wrap is introduced.

Dow reorganizes and sets up three international headquarters outside of Midland – Dow Europe, Dow Latin America and Dow Pacific.

**1965** Dow's one-shot measles vaccine is introduced.

**1968** The first laboratory opens at the Dow Corning Center near Midland.

Apollo 8 re-enters the Earth's atmosphere protected by a heat shield fabricated from Dow epoxy resins.

Ziploc® bags are test-marketed.

**1969** Dow Corning makes history when Neil Armstrong plants his silicone rubber-soled boot on the moon. The Apollo 11 Mission employs Dow Corning silicone sealants, rubber (hoses), potting compounds and insulation.

**1970** Dow introduces an automotive product line.

Dow Corning introduces flexible, thin-film silicone conformal coatings, enabling development of smaller, lighter electronic components.

**1973** Dow becomes the first foreign industrial company listed on the Tokyo Stock Exchange.

*Dow Historical Collection, Chemical Heritage Foundation Collections*

*Dow Corning photo*

## 5 GENERATION

### MARKET-FACING PRODUCTS AND DIVERSIFICATION (1978-2003)

**1979** With the establishment of Dow Corning Healthcare Group, research into ophthalmics, bioscience and drug delivery begins.

**1982** Dow Corning employees move into new corporate headquarters.

**1985** The Dow household product line doubles in size.

**1986** Dow ranks as the world's largest producer of thermoplastics.

**1989** Dow and Eli Lilly form DowElanco, a joint venture to produce agricultural products.

**1990** Dow Corning continues its expansion into Asia.

**1992** Dow's INSITE™ constrained geometry catalyst technology is introduced.

**1994** New silicone rubber coatings advance automotive airbag technology.

**1996** DuPont Dow Elastomers begins operations.

**1998** New skin and hair care, antiperspirants and deodorants are introduced thanks to Dow Corning's silicone gel technology.

**1999** Dow announces plans to acquire Union Carbide.

**2001** Dow-Union Carbide transaction is finalized.

UNION CARBIDE

## 6 GENERATION

### INNOVATION AT THE INTERSECTIONS (2004-PRESENT)

**2004** The Chinese government certifies Dow Corning to manufacture structural silicone sealant in China – the first time it awarded such a certificate to a foreign company.

**2006** Dow announces its 2015 Sustainability Goals.

**2007** FORTUNE magazine names Dow Corning one of the "100 Best Companies to Work for" in the United States.

**2009** Dow acquires Rohm and Haas, a key element in Dow's new Advanced Materials division.

**2010** Dow becomes a Worldwide Olympic Partner and the Official Chemistry Company for the Olympic Movement through 2020.

**2011** Dow unveils comprehensive plans to increase its ethylene and propylene production and connect its U.S. Gulf Coast operations to shale gas liquids.

Dow breaks ground for a new corporate headquarters in Midland.

Dow and Saudi Aramco announce a joint venture to create Sadara Chemical Co.

**2015** Dow and Corning announce a definitive agreement to restructure ownership of Dow Corning in which Dow will become the full owner of the 50:50 joint venture.

Dow and DuPont announce that their boards of directors unanimously approved a definitive agreement under which the companies will merge, then subsequently spin off into three independent companies.

**2016** Dow-Dow Corning transaction is finalized.

14 Si SILICON 28.086 A New ELEMENT for Growth.

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