



Ms. Stephanie Kwolek

Ms. **Stephanie Kwolek** is cited for her innovative efforts in the synthesis of liquid crystalline polymers, which formed the basis for the polyaramid system. She earned a bachelor's degree in chemistry from Carnegie-Mellon University and was awarded an honorary doctorate from Purdue University. Kwolek is the author of 26 publications and 17 United States patents on polymers, polycondensation processes, and liquid crystalline solution, polymers, and fibers. She joined the DuPont Company in 1946 and retired more than 40 years later as a Research Associate. Kwolek has received a number of professional honors and awards from organizations including ASTM, SAMPE, the Franklin Institute, the American Chemical Society, the American Society for Metals, and the Society of Plastics Engineering.



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WINNERS

MEDAL OF EXCELLENCE

IN COMPOSITE MATERIALS



Dr. Herbert Blades

Dr. **Herbert Blades** is cited for inventing the engineering processes to commercialize Kevlar®. Blades joined the DuPont Company in 1954 after earning a doctorate in physical chemistry from McGill University in Canada. He spent his entire career at the Experimental Station in Wilmington, Delaware, and retired in 1985 as a Research Fellow. He was awarded the Lavoisier Medal, which honors scientists and engineers from the DuPont Company for outstanding contributions that have resulted in a measurable business impact or an enduring technical achievement.



Dr. Paul Morgan

Dr. **Paul Morgan** is cited for his pioneering work in condensation polymerization, which provided the basis for the discovery and development of Kevlar® aramid fiber technology. Morgan earned a doctoral degree in organic chemistry from Ohio State University. He authored 28 papers, 37 U.S. patents, and a book, *Condensation Polymers: By Interfacial and Solution Methods*. Morgan received a number of professional honors and awards during his career, including the Midgley Award and the Polymer Chemistry Award from the American Chemical Society, the Howard N. Potts Medal from the Franklin Institute, and the Engineering Materials Achievement Award from the American Society for Metals.

Morgan retired from the DuPont Company in 1976 and was selected to receive the Medal of Excellence only a month after his death in May of 1992. Nobel laureate Paul Flory said of him, "Paul Morgan's research is characterized by an extraordinary degree of originality. He advanced both fundamental polymer chemistry and technological developments, the two in concert to a degree scarcely to be found in the work of any scientist since Carothers."