

GUY C. BERRY

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Personal

United States citizen, born May 11, 1935. Married, with three children.

Education

1960 University of Michigan, Ph.D., Chemical Engineering.
1958 University of Michigan, M.S., Polymer Science.
1975 University of Michigan, B.S., Chemical Engineering.

Research Interests

Physical chemistry and rheology of polymers and their solutions. Now Emeritus, when research-active, studies involved mesogenic polymers, branched chains, filled polymeric fluids, and water soluble macromolecules. Methods included integrated and photon correlation light scattering, exclusion chromatography, and a variety of rheological experiments. Custom equipment was used in many cases to extend the range and precision of experiments. Typically, studies included dilute solution properties to characterize the chain conformation and intermolecular interactions, investigation of the rheological properties of concentrated solutions, and dispersions of particles in polymeric fluids. Solutions studied included isotropic solutions of flexible and rodlike chains, and nematic solutions of rodlike chains.

Experience

2004 - 20xx **Facilitator**, University Professor Committee, *Carnegie Mellon Univ.*
2004 - 20xx **Chair**, Dickson Prize Committee, *Carnegie Mellon Univ.*
2004 - 20xx **Chair**, Honorary Degree Nomination Committee, *Carnegie Mellon Univ.*
2004 - 20xx **University Professor of Polymer Science & Chemistry Emeritus**, *Carnegie Mellon Univ.*
2002 - 2004 **University Professor of Polymer Science & Chemistry**, *Depart. Chem., Carnegie Mellon Univ.*
2001 - 20xx **Editor-in-Chief**, *Progress in Polymer Science*
1973 - 2002 **Professor of Polymer Science & Chemistry**, *Depart. Chem., Carnegie Mellon Univ.*
1990 - 1995 **Head**, *Department of Chemistry, Carnegie Mellon University.*
1983 - 1984 **Acting Head**, *Department of Chemistry, Carnegie Mellon University.*
1981 - 1982 **Acting Dean**, *Mellon College of Science, Carnegie Mellon University.*
1967 - 1973 **Associate Professor**, *Carnegie Mellon University.*
1965 - 1973 **Senior Fellow**, *Mellon Institute.*
1960 - 1965 **Fellow**, *Mellon Institute.*
1957 - 1960 **Research Assistant**, *University of Michigan*

Honors

2003 Fellow, American Chemical Society, Division of Polymeric Materials: Science and Engineering.
1996 Fellow, American Physical Society.
1994 Pittsburgh Prize, American Chemical Society.
1990 Bingham Medal Award, Society of Rheology
1977 Adjunct Professor, University of Pittsburgh, Department of Metallurgical and Materials Engineering, 1977-2004t.
1983 Visiting Professor, Kyoto University, May-June 1983.
1979 Visiting Professor, Department of Chemistry, Colorado State University, August 1979.
1973 Visiting Professor, University of Tokyo, Japan Society for the Promotion of Science.
1979 Member, U.S. Delegation to U.S.-China Bilateral Symposium on Polymer Chemistry and Physics (12 delegates), October.

Guy C. Berry, emeritus University Professor of chemistry, is widely recognized as a leader in rheology and light scattering of polymers. Rheology, a branch of mechanics, is the study of those properties of materials that determine their response to mechanical force.

Berry has a long history of outstanding contributions to the literature in experimental fluid physics using mechanical methods and light scattering, as well as in theoretical concepts of the rheology and thermodynamics of complex fluids. His work has advanced the study of important issues in the conformation and dynamics of macromolecules.

His contributions have impacted both academia and industry in many fields, including polymer science, fluid physics, chemistry and chemical engineering. Over the course of his career Berry has been a leader in the polymer community. He served as a founding member of the Governing Board of the International Symposium on Polymer Analysis and Characterization since 1988, and as the Chair of that group from 2004 through 2014. He was one of 12 delegates and speakers at the China-U.S. Bilateral Symposium on Polymer Chemistry and Physics in Beijing, China, in 1979.

Berry began his career in polymer science as an undergraduate laboratory assistant at the University of Michigan. After earning his doctoral degree in 1960 he accepted an appointment as a Fellow at Mellon Institute to work on the light scattering studies of dilute solutions of polymers. He became a senior Fellow of the Mellon Institute in 1965 and joined the faculty of Carnegie Mellon when Mellon Institute merged with the Carnegie Institute of Technology in 1967. He was promoted to professor in 1973 and became a University Professor in 2001.

During his tenure at the university Berry was head of the Chemistry Department and acting dean of the Mellon College of Science. He developed and directed the polymer science curriculum, which has been used by students from various departments and colleges over the past 25 years.

Berry has authored about 200 publications and is co-editor of Progress in Polymer Science and the Journal of Polymer Science: Polymer Physics. He served as an editor of the Journal of Polymer Science, Physics Edition for several years and has been an editorial board member of several other journals as well. He received the prestigious Bingham Medal in 1990 from the Society of Rheology and the Pittsburgh Award in 1994 from the American Chemical Society's Pittsburgh Section. He became a Fellow of the American Physical Society in 1995, and was selected as an American Chemical Society PMSE Fellow by the Polymeric Materials: Science and Engineering Division in 2003.