

Biography of Eric Baer

Eric Baer is Director, Center for Layered Polymeric Systems (CLiPS), The Herbert Henry Dow Professor of Science and Engineering and Professor in the Dept. of Macromolecular Science and Engineering at Case Western Reserve University. His honors include the Curtis W. McGraw Research Award, American Society of Engineering Education, 1968; Centennial Scholar, The Johns Hopkins University, 1976; Annual Award of the Thermoplastic Materials and Foams Division, Society of Plastics Engineers, 1979; Distinguished Alumnus Award, The Johns Hopkins University, 1979; International Award of the Society of Plastics Engineers, 1980; Borden Award in the Chemistry of Plastics and Coatings, American Chemical Society, 1981; Meritorious Service Award of the Case Alumni Association, 1982; International Education Award of the Society of Plastics Engineers, 1991; Doctor of Sciences "honoris causa" of the Russian Academy of Sciences (Chemistry) June 28, 1993; Paul J. Flory Education Award, American Chemical Society, March 27, 1996; Frank and Dorothy Humel Hovorka Prize, Case Western Reserve University, 1998; Roon Foundation Award, Federation of Societies for Coatings Technology and Coatings Industry Education Fund, 1999; he was inducted into The Plastics Hall of Fame, June 22, 2000; Paul J. Flory Polymer Research Prize, awarded at "POLYCHAR 22 World Forum on Advanced Materials, Stellenbosch, South Africa, April 7-11, 2014; Recipient of the 2015 Case School of Engineering Research Award for Senior Faculty, April 23, 2015; Recipient of The William Fowler Award for Distinguished Research in Physics – Sponsored by the Ohio-Region Section of American Physical Society (OSAPS) October 2015; Recipient of the 2016 James L. White Innovation Award of the Polymer Processing Society (PPS). Presented during the 32nd International Conference of the PPS on July 25-29, 2016 in Lyon, France.

Research interests: Irreversible microdeformation mechanisms; pressure effects on morphology and mechanical properties; relationships between hierarchical structure and mechanical function; mechanical properties of soft connective tissue; polymer composites and blends; polymerization crystallization on crystalline surfaces; viscoelastic properties of polymer melts; damage and fracture analysis of polymers, and micro- and nanolayered composites. Eric Baer was the Editor of the Journal of Applied Polymer Science, 1988-2011. He is Editor of five books and has published over 600 research papers.