



Norman J. Wagner is the Robert L. Pigford Chaired Professor of Chemical Engineering at the University of Delaware, with affiliated faculty appointments in Physics and Astronomy, as well as Biomechanics and Movement Science. He served as Chair of the CBE Department from 2007-2012, and is the director of the *Center for Neutron Science* (www.cns.che.udel.edu). He was elected to the *National Academy of Inventors* in 2016 and the *National Academy of Engineering* in 2015. He leads an active research group with focus on

the rheology of complex fluids, neutron scattering, colloid and polymer science, applied statistical mechanics, nanotechnology and particle technology. His research interests include the effects of applied flow on the microstructure and material properties of colloidal suspensions, polymers, self-assembled surfactant solutions, and complex fluids in general. Prof. Wagner earned his Bachelors degree from Carnegie Mellon and Doctorate from Princeton University, was an NSF/NATO Postdoctoral Fellow in Germany, and a Director's Postdoctoral Fellow at Los Alamos National Lab prior to joining the University of Delaware in 1991. He was named a Senior Fulbright Scholar (Konstanz, Germany) and served as a guest Professor at the ETH, Zurich (1997) and the University of Rome (2004). His recent awards include election as Fellow of the AAAS (2015), the Bingham Medal of the Society of Rheology (2014), election as Fellow of the Neutron Scattering Society of America (2014), and the AIChE PTF Thomas Baron Award (2013). He was awarded the Siple Award in 2002 by the US Army for his development of shear thickening fluids for novel energy absorbing materials. Prof. Wagner has authored or coauthored over 200 scientific publications and patents, was elected to be Vice-President of the Society of Rheology (2015) and serves on the executive committee of the Neutron Scattering Society of America, as well as Section Editor for AIChE Journal, in addition to serving on the editorial boards of four international journals. He has co-authored a textbook (2008) on [Mass and Heat Transfer](#) for the Chemical Engineering series of Cambridge University Press, as well as [Colloidal Suspension Rheology](#) (2011), also Cambridge University Press. Patented and commercially developed scientific instruments include rheo-optic instruments (TA Instruments) as well as novel rheo-SANS instruments for investigating nanoscale and microscale structure in flowing systems currently available at the NIST Center for Neutron Research and the Institute Laue Langevin D22, Grenoble, France. Prof. Wagner co-founded STF Technologies LLC in 2003 to commercialize his inventions for applications in the military, as protective sports equipment, and astronaut protection for NASA. More about Professor Wagner and his research can be found at www.cbe.udel.edu/wagner.