

Chemical & Biomolecular Seminar Series



Robert L. Pigford Memorial Lecture

David Boger

Emeritus Laureate Professor
The University of Melbourne

Friday, October 6, 2017

10:00—11:00 a.m.

102 Colburn Lab

David Boger received a B.S. in Chemical Engineering from Bucknell University and a Ph.D. in Chemical Engineering from the University of Illinois. He is an Emeritus Laureate Professor at The University of Melbourne, where he previously was a Professor and Chair of Chemical Engineering. He also held a position in Chemical Engineering at Monash University. He has held visiting positions at universities around the world, consulted for over 90 companies, including 3M Corporation in the USA and Tata Research & Development Centre in India, and is currently an expert witness in several international court cases. He has received numerous honors and awards, including the 2005 Prime Minister's Prize for Science, and was elected a Fellow of the Royal Society in 2007, and the National Engineering Academy in the US in 2017. Highlights of his research include the discovery of constant viscosity elastic liquids (Boger fluids). He is well-known for exploiting rheology for waste minimization in the minerals industry.

From Boger Fluids to Environmental Rheology

This presentation traces the rheological research starting at Monash University in 1966 and continued at The University of Melbourne. It describes some of the more human aspects of how Boger fluids were developed, summarises some of the research conducted with these materials, and then leads on to suspension rheology and ultimately to the area of interest today – environmental rheology and sustainability.