Final Report on NAG3-2477

"Flows of Wet Foams and Concentrated Emulsions"

1 Objectives of Project

The aim of this project was to advance a microstructural understanding of foam and emulsion flows. The dynamics of individual surfactant-covered drops and well as the collective behavior of dilute and concentrated was explored using numerical simulations. The long-range goal of this work is the formulation of reliable microphysically-based statistical models of emulsion flows.

2 Publications

The following invited papers and publications were wholly or partially supported by this grant.

Invited papers


5. Euro-Conference on Foams, Emulsions, & Applications (Delft), "Linear viscoelasticity of a concentrated emulsion," June 2000

Publications


3 Personnel

This grant supported the dissertation of Martin B. Nemer, Ph.D. 2002. Martin has a permanent position at Sandia Laboratories in Carlsbad, New Mexico.

The grant provided partial support for the dissertation of Ivan Galea, Ph.D. 2004 (currently employed by Boston Consulting Group, New York City), and a postdoc, Dr. Xiaohui Chen, who joined Citibank in 2002.