

Prof. Tonya Kuhl

Department of Chemical Engineering and Materials Science and Department of Biomedical Engineering, University of California, Davis, Ca

Emergent Structures in Models of Biological Membranes

Over the past several decades, supported lipid bilayers have been used as model systems of cellular membranes, to investigate various membrane interactions, and as platforms for development of bio-sensors. Precise structural characterization by neutron and x-ray scattering offers a wealth of insight into membrane organization, self-assembly, and domain formation as well as how membranes respond to changes in their environment, e.g. temperature, protein binding, etc. In this talk, I will discuss some recent advances in our understanding of supported membranes, their use in biotechnology applications, and highlight the importance of scattering techniques.

