

Abstract Submitted  
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**Strategies for Multi-Modal Analysis**<sup>1</sup> ALEXANDER HEXEMER, CHENG WANG, RONALD PANDOLFI, DINESH KUMAR, SINGANALLUR VENKATAKRISHNAN, JAMES SETHIAN, Lawrence Berkeley Natl Lab, CAMERA TEAM — This section on soft materials will be dedicated to discuss the extraction of the chemical distribution and spatial arrangement of constituent elements and functional groups at multiple length scales and, thus, the examination of collective dynamics, transport, and electronic ordering phenomena. Traditional measures of structure in soft materials have relied heavily on scattering and imaging based techniques due to their capacity to measure nanoscale dimensions and their capacity to monitor structure under conditions of dynamic stress loading. Special attentions are planned to focus on the application of resonant x-ray scattering, contrast-varied neutron scattering, analytical transmission electron microscopy, and their combinations. This session aims to bring experts in both scattering and electron microscope fields to discuss recent advances in selectively characterizing structural architectures of complex soft materials, which have often multi-components with a wide range of length scales and multiple functionalities, and thus hopes to foster novel ideas to decipher a higher level of structural complexity in soft materials in future.

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