

Abstract Submitted  
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**Characterization of Self-Forming Liposomes** ZEPHYR MC-CORMICK, Department of Physics, University of Nevada, Reno, RAJAN BISTA, Department of Medicine, University of Pittsburgh, AARON COVINGTON, Department of Physics, University of Nevada, Reno — We are currently using Raman spectroscopy to investigate thermodynamic phase transitions of self-forming liposomes, trademarked QuSomes <sup>TM</sup>. A Renishaw InVia Raman microscope system is used to acquire Raman spectra using a low-power argon ion laser (514.5 nm). A temperature-controlled sample holder is used to vary the temperature between -4 and 110 ° C. Spectral indications of phase transitions are seen. Techniques to examine mechanical properties of liposome formation, as well as size distribution and separation, are being developed. Preliminary data will be presented.

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