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**John C. Crispell\*** (jchrispe@tulane.edu), Tulane University, 416 Stanley Thomas Hall, New Orleans, LA 70118, and **Lisa J. Fauci**. *Immersed elastic structure dynamics in viscoelastic fluids*.

Many biological fluids are non-Newtonian and exhibit viscoelastic responses. Here we discuss recent results obtained using an immersed boundary framework to study the interaction between immersed elastic structures and surrounding viscoelastic fluids. (Received September 15, 2010)