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**Steven Derochers\*** ([sjderoch@ncsu.edu](mailto:sjderoch@ncsu.edu)), Department of Mathematics, Box 8205, NC State University, Raleigh, NC 27695-8205. *On the semigroup generator for the total linearization of a hydro-elasticity model.* Preliminary report.

The finite element method is an effective tool in obtaining numerical approximations to solutions of linear boundary value problems. In this talk, we will apply a finite element method to investigate a fluid structure system involving coupled flow. Due to the coupling, a nonstandard means to eliminate the pressure term is required and will use specific extensions into the solid domain. (Received January 21, 2016)