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Mihaela Ignatova, Igor Kukavica* (kukavica@usc.edu), **Irena Lasiecka** and **Amjad Tuffaha**. *The global existence of a fluid-structure system with small data.*

We address a system of partial differential equations modeling motion of an elastic body inside an incompressible fluid. The fluid is modeled by the incompressible Navier-Stokes equations while the structure is represented by the damped wave equation with interior damping. We will review the local for large and global existence results for small data. The global existence result is obtained for small initial data in a suitable Sobolev space. (Received September 26, 2017)