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Dmitry V. Zenkov* (dvzenkov@ncsu.edu), **Donghua Shi**, **Yakov Berchenko-Kogan** and **Anthony M. Bloch**. *Infinite-Dimensional Constrained Mechanics*.

Constraints in infinite-dimensional mechanics typically appear as velocity constraints (incompressibility, electromechanical constraints, etc). This talk will introduce a rather universal formalism for studying such systems. Dynamics of constrained flexible solids will illustrate the theory. (Received September 12, 2016)