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High Friction Sliding Seismic Isolation for Enhanced Performance of Light Frame Structures during Earthquakes

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Date: Thursday, October 6th

Time: 4:00 – 5:00 pm

Location: Snell Library, Room XXX

Speaker: Ezra Jampole, Ph.D.
Associate,
Buildings and Structures

Light frame structures can suffer enormous financial losses during earthquakes. A low-cost high friction sliding system is proposed to achieve nearly damage-free performance during large earthquakes by balancing superstructure force demands and relative isolation displacements. The proposed system is validated through multi-scale experimentation, including full scale shake table tests of a two story house in multiple configurations. A new ground motion intensity measure is derived for determining relative isolation displacements for high friction sliding systems.

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Reception to follow.

Patricia Mafioletti, Recruiter • pmafioletti@exponent.com