More than a Pretty Face(ade): Meeting Safety & Historic Requirements in Concrete Barriers

Dr. Nassif will speak about his recent research on design, modeling, and crash testing of open-faced concrete barriers. The RIME Team developed an open-faced concrete balustrade design that meets the aesthetic requirements of the Historic Preservation Office (HPO) and the safety requirements of FHWA using computer simulation (detailed finite element analysis via LS-DYNA) and full-scale crash testing according to MASH TL-4 safety performance criteria. This historical and crash-tested barrier can be used to replace similar barriers nation-wide while maintaining safety and retaining its aesthetic shape.