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## June 2018 Evening Seminar

### BASE ISOLATION DESIGN FOR STRATHCONA ELEMENTARY SCHOOL

**Date:** Wednesday – June 13, 2018  
**Venue:** Theatre C300, UBC Robson Square, 800 Robson Street, Vancouver, BC  
**Time:** Refreshments at 6:00pm, followed by presentation at 6:30pm  
**Presenter:** John Sherstobitoff, P.Eng., Principal - Ausenco  
**Cost:** Free for SEABC Members and \$85 for non-members  
Registration is required: [www.seabc.ca/Baselsolation](http://www.seabc.ca/Baselsolation)

Assigned legal heritage designation by the City of Vancouver, Lord Strathcona Elementary School is one of British Columbia's oldest continuously operating schools. As part of the Ministry of Education's seismic mitigation program, the upgrade of the 1897 vintage load-bearing brick and stone building uses seismic isolation (base isolation). The upgrade converts a high seismic risk building to one with post-earthquake immediate occupancy performance and heritage preservation. The analysis and design follows provisions for seismically isolated buildings, newly introduced in the National Building Code in 2015, which includes analyses of three different suites of earthquake ground motions.



This presentation shall provide insights into the variety of linear and non-linear analyses that were employed to provide the most efficient retrofit solution. John will discuss the building's description, conceptual design options, material testing, earthquake ground motions, analysis, design, and construction – including the unique aspect of having the isolation plane above ground.

**Completed in December 2016, this is the first base isolated building in Canada and recipient of the 2017 ACEC-BC Award of Excellence in the Building category, as well as the Lieutenant Governor's Award for Engineering Excellence.**

**John Sherstobitoff, P.Eng.** is Principal at Ausenco in Vancouver, BC and known for his hands-on, collaborative, and highly creative designs on complex projects around the globe. With a career spanning over 30 years, John is an expert on all aspects of design codes, especially regarding seismic and dynamic considerations. In this regard he is currently the Chair of Standing Committee on Earthquake Design that sets the seismic provisions for the National Building Code of Canada (2015, 2020). He has championed getting new provisions for seismic isolation and supplemental energy dissipation into the 2015 code.

