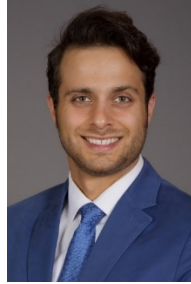


**Department of Structural Engineering  
University of California, San Diego  
SE 290 Seminar**



Alireza Sarebanha  
Arup Los Angeles

**“Loma Linda University Medical Center Replacement Hospital”**

Wednesday, October 3, 2018

12:00 pm - 12:50 pm, Pepper Canyon Hall, Room 122

<https://structures.ucsd.edu/seminars>

**Abstract**

Loma Linda University Medical Center, as part of their 2020 Vision, will replace the seismically non-compliant, existing hospital. The project expands their existing hospital building to include a new 1,100,000ft<sup>2</sup> expansion of the 276-bed Adult Medical Center, including 96 intensive care beds and 180 medical-surgical beds. Working with the client, Arup proposed the use of base isolation for this hospital. The use of this system has been estimated to deliver savings of more than \$10m to the client while achieving improved seismic performance at close proximity to one of the most significant seismic faults in California. In the current design, the structure is seismically isolated in horizontal direction using triple friction bearings and fluid viscous damper with the ability to include vertical isolation in the isolation system at a later date.

**Biography**

Alireza Sarebanha is a Structural Engineer with the Los Angeles office of Arup. He received his B.S. in civil engineering from Sharif University of Technology, M.S. from the State University of New York at Buffalo and his Ph.D. from the University of California, San Diego. He joined Arup in 2017 and since then he has worked on different projects including the New Las Vegas Stadium, Loma Linda Medical Campus University and LAX Delta - Terminal 2 and 3 Modernization. His general interests include seismic protective devices, nonlinear modeling of structures, design automation and experimental testing of structures.

*Sponsored by Professor Ken Loh  
For more information on this seminar, contact Amber Samaniego,  
at [858-534-4282](tel:858-534-4282) or [a2samaniego@ucsd.edu](mailto:a2samaniego@ucsd.edu)*