

ABCPhDOPENTalks2022

REPAIRABLE RC SYSTEMS

Prof. **Pinar Okumus**

Abstract: This talk will cover precast, prestressed and reinforced concrete (RC) systems that are designed for lower damage and/or reparability after extreme lateral loading (e.g., earthquake). These include modular systems that have self-centering capabilities to minimize residual displacements. After a general introduction to modular and self-centering systems, the presentation will focus on a new reinforced concrete shear wall system that can be used for both lateral load carrying and architectural appeal. The walls utilize repeating patterns of similar modules (tessellations) that can interlock in one or two directions to eliminate the need for mechanical connections between modules.

Bio: Dr. Okumus is an associate professor at University at Buffalo, the State University of New York. She has obtained her PhD in 2012 from University of Wisconsin, Madison, USA. Dr. Okumus' research focuses on infrastructure resiliency, from service to extreme events with applications to pre-tensioned, post-tensioned, and reinforced concrete components and systems.

31st March 2022, H10:00
Politecnico di Milano,
Aula Consiglio, building 14, first floor
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