TRAN-SET
SEMINAR SERIES

Enhancing Live Load-Carrying Capacity of Existing Infrastructure for Extended Life Span

- Wednesday October 30th, 2019 | 1:30 – 3:00 PM (CST)
- Patrick F. Taylor Hall Room 1206
- Please RSVP prior by e-mailing mragab1@lsu.edu

Presented By Dr. Hatem Seliem

Increasing live load-carrying capacity of structures is crucial for extending life span of infrastructure due to commonly available heavier moving live loads compared to the original design live load. Utilizing a combination of advanced modeling techniques, instrumentation, monitoring and testing provides an accurate assessment of the structural load capacity. This capacity can be further enhanced through strengthening with Fiber Reinforced Polymers, FRP to achieve the desired increase in load capacity to meet operational load demand. Along with the enhancement in load capacity, FRP provide the desired durability to extend life span of the structure. The presentation offers an overview of the strengthening technique along with examples of field applications where FRP's have been successfully used for repair and strengthening of infrastructures.

Dr. Hatem Seliem has 20 years of experience in structural engineering with special emphasis on design and behavior of reinforced and prestressed concrete structures and bridges. In addition, has an extensive experience in Finite Element Analysis (FEA) of structures and bridges. Further, he has vast experience in retrofitting and rehabilitation of structures using Fiber Reinforced Polymers (FRP) as well as traditional techniques. Dr. Seliem is a member of the Transportation Research Board (TRB) Standing Committee of Structural Fiber Reinforced Polymers (Committee AFF 80 related to bridges) and served as council member of the International Institute of FRP in Construction (IIFC). He is an associate member of ACI Committees 343, Bridge Design and 357, Design of Offshore and Marine Structures. ***Dr. Seliem is the recipient of the 2014 American Concrete Institute (ACI) Chester Paul Siess Award for Excellence in Structural Research***. In addition, he is a member of the Standing Committees of the Egyptian Code of Practice for Bridge Design and the Egyptian Code of Practice for Rehabilitation of Structures using FRP.

Lunch will be provided!!

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