Post-tensioned concrete structures

Location: Newmark Civil Engineering Building (Room # to be announced)

Time: TR 9:00 ~ 10:50 am, W 1:00~2:50 pm (Summer Semester 2019, from 6/11 to 8/1)

The topics covered in this graduate class include:

1. Unbonded and Bonded Post-tensioned (PT) Concrete Systems
2. Working Stress Design, Flexural & Shear Design, Moment-Curvature of PT Members
3. Friction & Anchor Slip Loss, Elastic Shortening, Prestress Distribution, Elongation
4. Secondary Effects, Indeterminate Structures, Design of PT Flat Plates and Connections
5. Anchorage, Camber/Deflection, PT Field Fundamentals, Inspection and Repair

Instructor: Professor Thomas Kang, Fellow of Post-Tensioning Institute (PTI)

"Prof. Kang has taught Post-tensioned Concrete Structures courses at many Universities such as UCLA, the Univ. of Oklahoma, the Univ. of Hawaii at Manoa, the Univ. of Tokyo, and Seoul National Univ. over the last 17 years, including at the Univ. of Illinois at Urbana-Champaign (Fall 2016 & Summer 2017). With a specialty in PT concrete structures, he will be instructing this very practical course (CEE 598PT & 598PTO) once again at UIUC."

Photos: PT unbonded anchors invented by Prof. Kang, which are applied in actual PT building construction.

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