Characterization of SRG and SRP 
(Steel Reinforced Grout /Polymer)

Investigators: Marta Matana (Graduate Research Assistant)
Dr. Antonio Nanni (Faculty Advisor)
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Background:
Steel reinforced polymers and grouts are highly effective as external reinforcement for upgrade of concrete structures. Especially, use of cementitious grout to impregnate the steel cords will result in fire resistant composite material.

Objectives:
1) Tensile characterization
2) Bond performance (water jetted and laser profilometry characterized concrete surface)
3) Effective bond length
4) Tensile characterization of bent system
5) Impact testing - comparison study
6) Blast resistance - comparison study

# 1 - Tensile testing
# 2 - Stress - strain curve of the specimen tested under tension
# 3 - Set up for effective bond length characterization
# 4 - Water jetting of concrete surface for bond performance testing
# 5 - Test device for bent system testing
# 6 - Impact testing