

## UAS at UTK: Drones for Research

SAL Brown Bag Lunch
Seminar Series

## "Drones for Civil Engineering"

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12:15 p.m., Friday, February 1, 2019

NIMBioS, Hallam Auditorium (Room 206)
Claxton Education Building

The horizontal nature of civil engineering leads to some practical and creative applications of drones in the industry. Nearly all the life cycle stages of a construction project can benefit from deploying drones in the field. In this presentation, we discuss two applications of drones in civil engineering. In the first application, the geo-referenced image acquired by a drone is aligned with virtual image generated from a three-dimensional building information model to expedite the facility inspection process. In the second application, ground penetrating radar is integrated with drones to survey a concrete bridge deck to detect, locate, and characterize structural defects. The challenges of using drones in these applications will also be discussed.

For more information, visit www.nimbios.org/SAL/uas-seminars







