

CPS: Medium: Batteryless Sensors Enabling Smart Green Infrastructure Josiah Hester^{†*} (PI), George Wells[†], Qi Zhu[†], William Miller[†], Aaron Packman[†] ([†]Northwestern University, ^{*}Georgia Tech)



Challenge:

Solution: Augment *green* infrastructure installations with soil powered battery-free devices that sense, actuate, and coordinate smart city applications.

GARDEN

Scientific Impact:

We advance ability to coordinate learning tasks across a network of intermittently

powered CPS.

We co-design soil microbial energy harvesters, power models, and CPS.

Broader Impact:

- •Smart green infrastructure will

•Smart farming deployments.

•Non-profit, conservation partners.

terms of habitat and stormwater.

the health of a City (Chicago) in

enable a better understanding of

