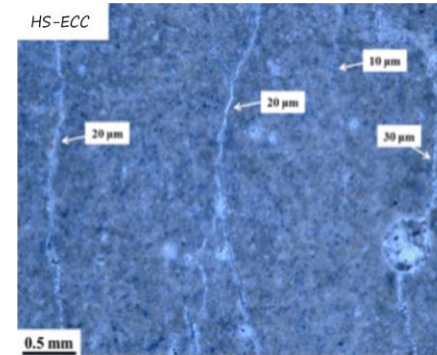
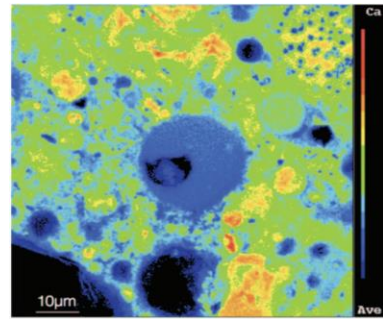


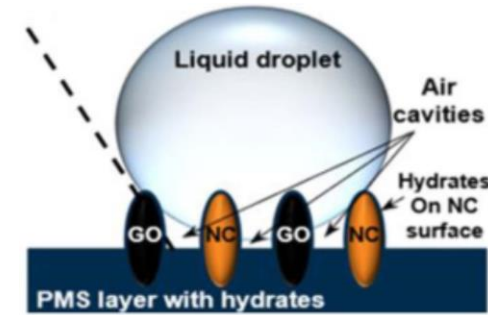
Xianming Shi
PhD, PE, F. ASCE



Waste utilization &
decarbonization



Self-healing Concrete



Concrete Sealer

SMARIN



Cl^-
 SO_4^{2-}

Nanotechnology & Electrochemical Engineering

Pervious Concrete
SCC/**ECC/UHPC**

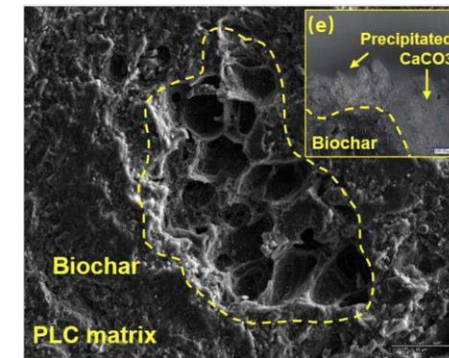
Renewable
Admixtures

Corrosion
Protection

Preservation/
Repair/
Retrofit



- Self-healing or nano coatings
- Building envelope w/ **biochar** & PCM
- Multifunctional composites



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>> Diverting wastes towards beneficial use in the built environment

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