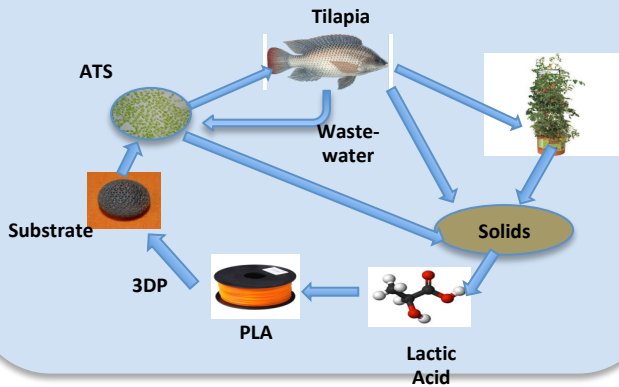


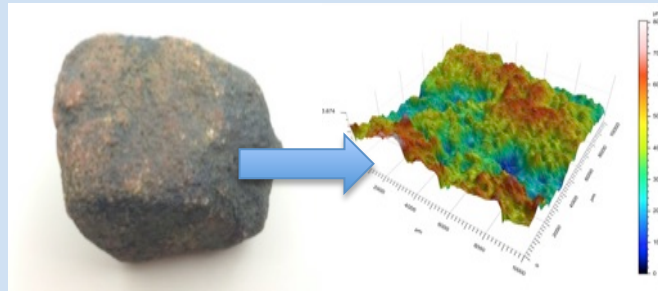
David Blersch, Biosystems Engineering, Auburn University, USA (dmb0040@auburn.edu)

- Research goals
  - Applications of Algal Turf Scrubbers (ATS) for nutrient recovery from water and wastewater
  - Model ATS colonization and performance
  - Design of custom substrates for ATS colonization
  - Colonization ecology of filamentous algae

## Goal 1: ATS in Aquaculture food production



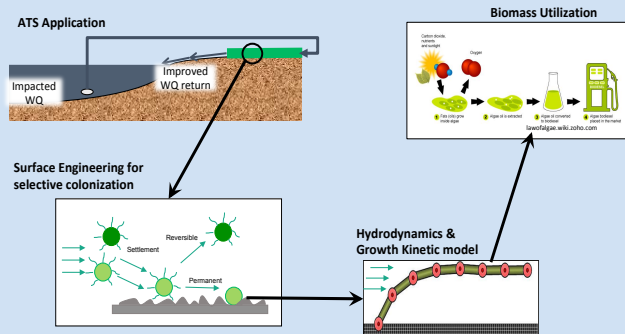
## Goal 3: Custom substrates through reverse engineering of natural substrates



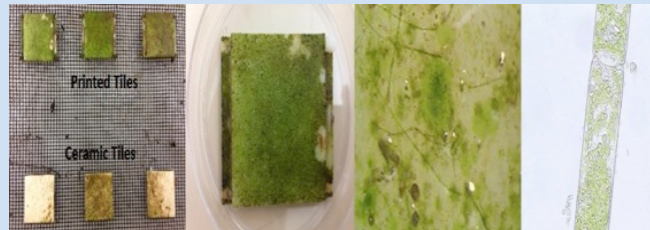
## Projects of Interest

1. ATS for nutrient recovery from wastewaters and eutrophic natural waters
2. Filamentous algae biomass utilization
3. Colonization ecology of periphyton and turf algae
4. Kinetic models of algal biofilm and turf systems

## Goal 2: Model ATS colonization and performance



## Goal 4: Colonization ecology of filamentous algae on 3D print surfaces.



## Partners of Interest

1. Watershed managers for pilot-scale studies
2. Chemical engineers for biomass conversion
3. Phycologists for species-specific studies
4. Process engineers for model development