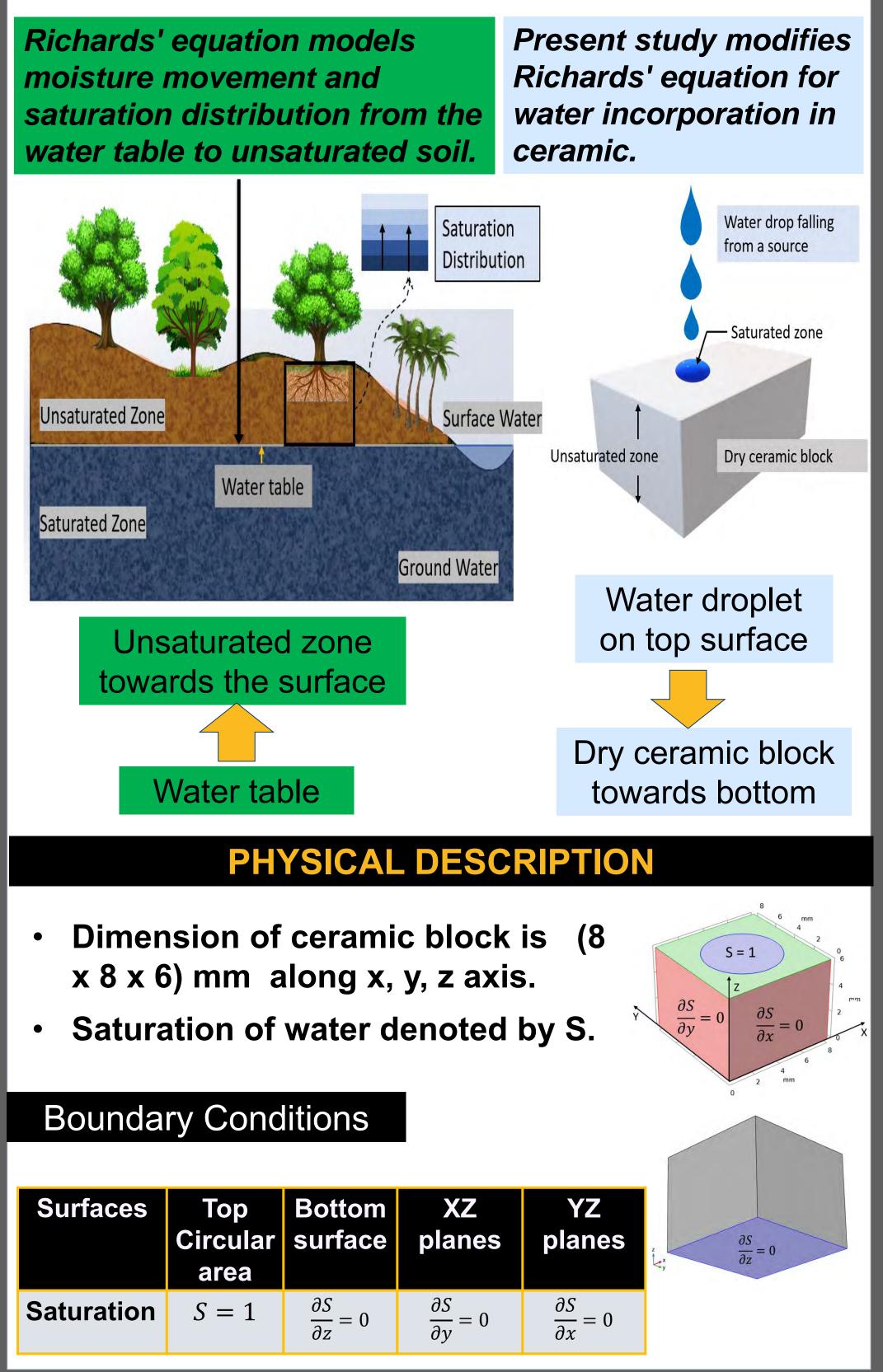


## INTRODCUTION

- Ceramics are widely used in filtration system, residential tiling, biomedical engineering etc.
- Understanding how water affects the physical and mechanical properties of ceramics is crucial.
- Moisture modeling is essential for this.
- Moisture resistance is crucial for durable building materials.
- Modeling moisture infusion have implications for development of new materials and technologies.
- Fields like biomedical and energy storage could benefit from a better understanding of moisture infusion in ceramics.

## BACKGROUND

- Advanced Cement-Based Materials Laboratory at UWM recently conducted research on developing superhydrophobic ceramic material.
- Water imbibition modeling was required to aid comprehension of water absorption in ceramics with and without coatings.



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