

COLLABORATIVE RESEARCH CENTER 837

INTERACTION MODELING IN MECHANIZED TUNNELING

RUB

CENTRIFUGE MODEL TESTS AND NUMERICAL ANALYSES ON SHALLOW TUNNELS IN UNSATURATED GROUND

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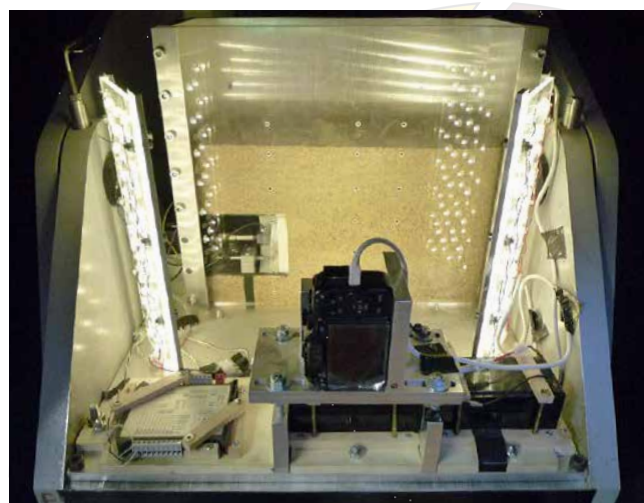
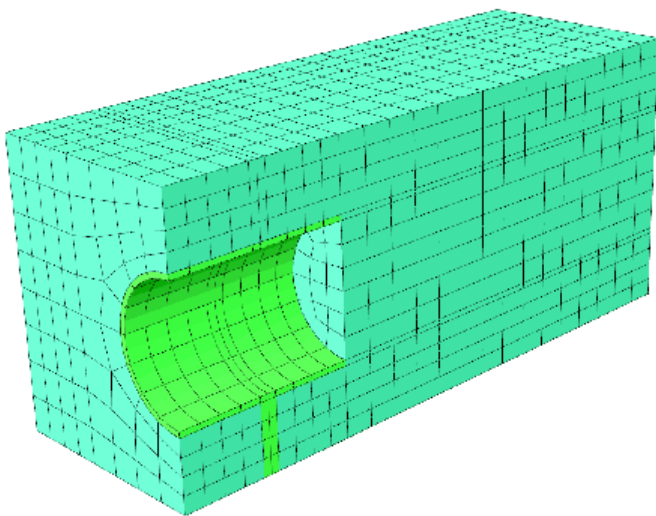
University of Natural Resources &
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Attention: time changed!

The face stability of shallow tunnels in partially saturated soil is investigated by means of centrifuge testing and numerical analysis. A silty soil is used in this studies. Some model tests were carried out with a geotechnical centrifuge by varying soil

densities and the ground water table. FE analyses with a constitutive model were performed for partially saturated soil. In this presentation, the numerical results will be compared with the centrifuge test results.



Guests are welcome!