## Invitation to join the 4D-LSM Short Course 2021

Dear everyone,

If you have some needs for your researches about the numerical methods of DLSM/4D-LSM, we are pleased to invite you to join the 4D-LSM Short Course 2021 at BJT 09.00-11.00 a.m. on Sundays from May 9 to June 27, 2021. We will introduce the basic principles and usages of DLSM/4D-LSM and the guidance for user-defined function programing. You can register the short course for free through the following QR code as:



**ORGANIZERS:** 

Commission on DDA, ISRM

Commission on RocDyn, ISRM

Commission on DDA, CSRME

Tianjin University

China University of Geosciences (Wuhan)

Hebei University of Technology

## 4D-LSM Short Course Schedule







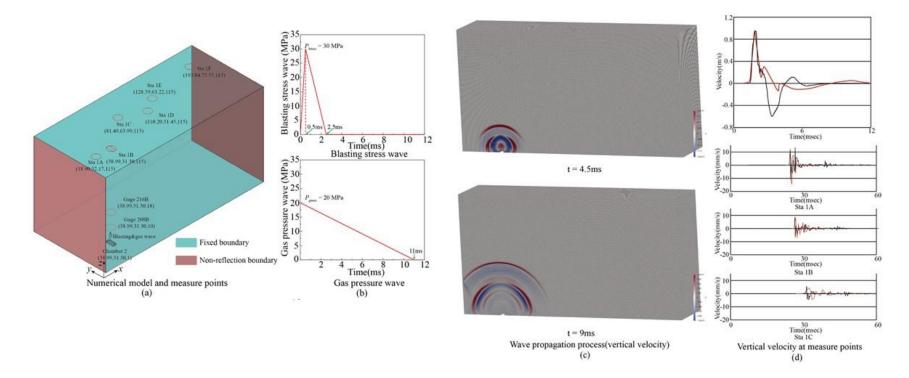




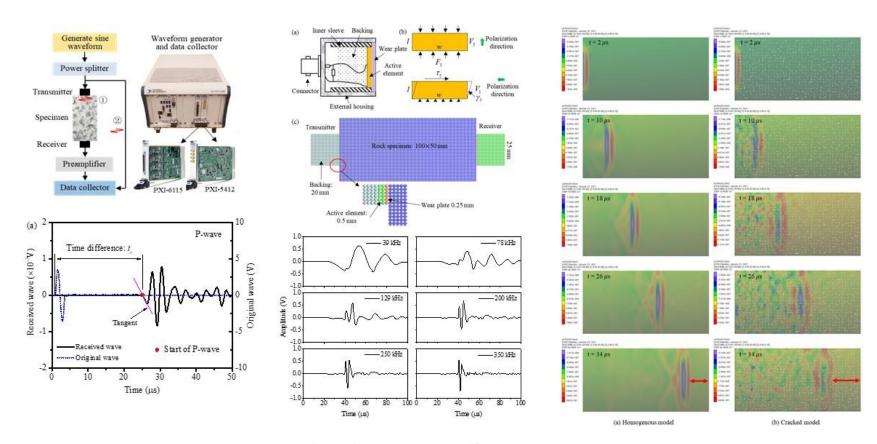




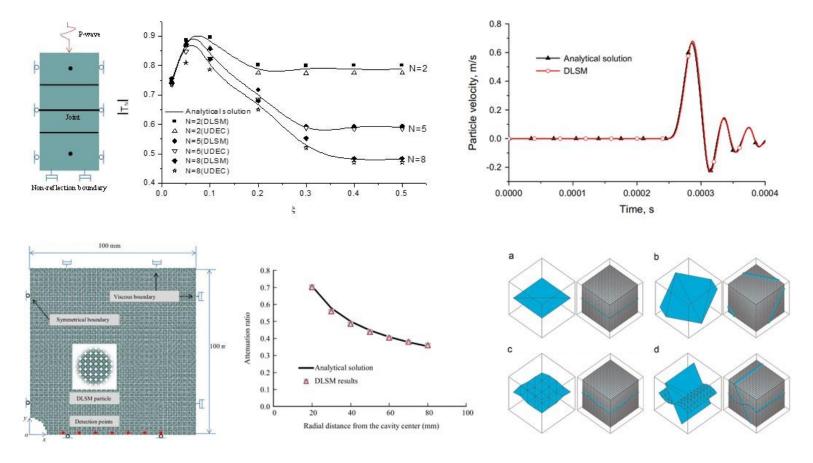
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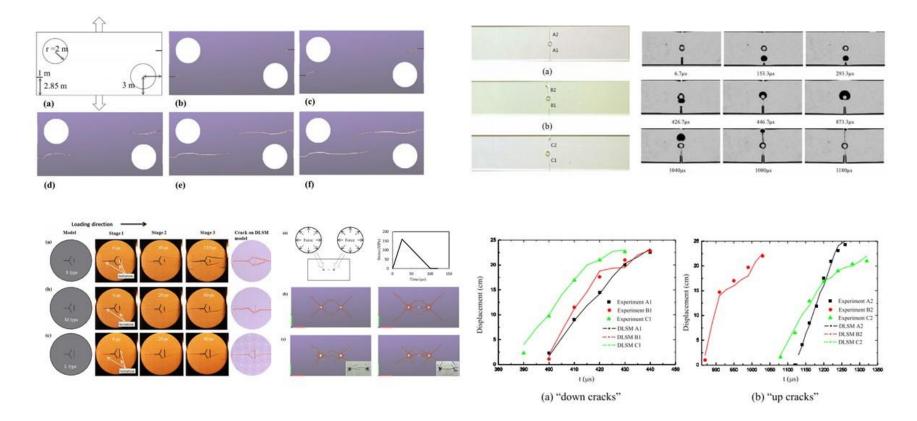
>1 billion elements for full 3D field test on blasting wave propagation



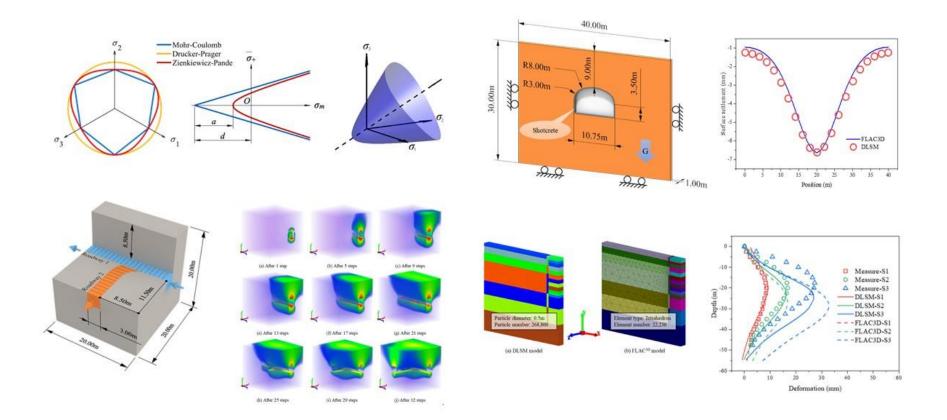
Acoustic wave propagation



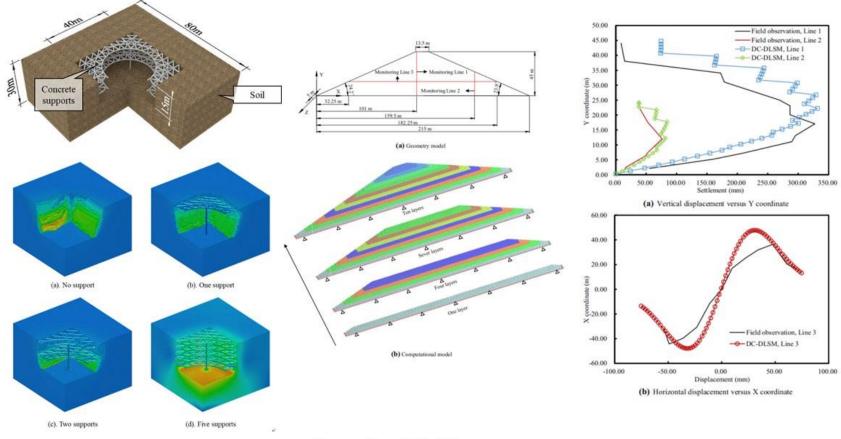
Stress wave propagation in jointed rock



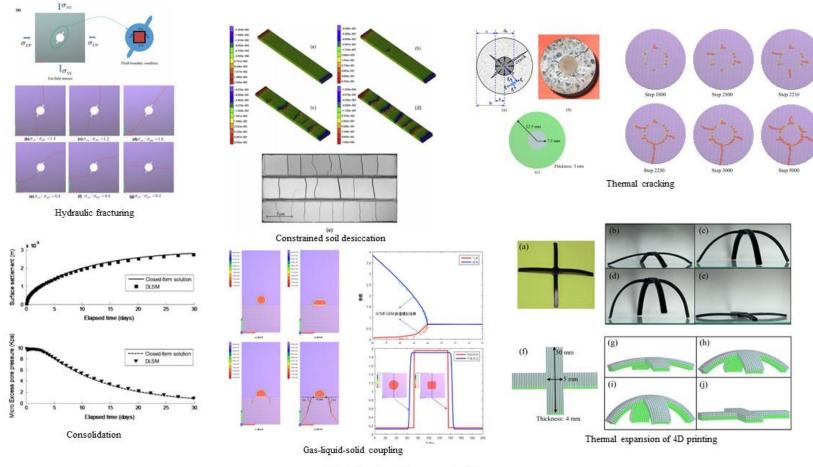
Dynamic fracturing of rock



Excavation & Building



Excavation & Building



Multi-physics modelling