InterPore2021



Contribution ID: 253

Type: Oral Presentation

# A phase-field method for propagating fluid-filled fractures coupled to a surrounding porous medium

Thursday, 3 June 2021 11:00 (15 minutes)

In this presentation, we revisit our efforts to model fluid-filled fracture propagation in a porous medium. Several challenges and extensions in mathematical modelling as well as the design of numerical methods will be discussed. Along with these theoretical and algorithmic accomplishments, a computational framework IPACS has been developed, which is substantiated with some numerical simulations.

## **Time Block Preference**

Time Block A (09:00-12:00 CET)

### References

#### Acceptance of Terms and Conditions

Click here to agree

#### Newsletter

**Student Poster Award** 

**Primary authors:** Prof. WICK, Thomas (Leibniz University Hannover); Prof. LEE, Sanghyun (Florida State University); Prof. WHEELER, Mary (University of Texas at Austin)

Presenter: Prof. WICK, Thomas (Leibniz University Hannover)

Session Classification: MS24

**Track Classification:** (MS24 - Invitation Only) Mathematical and computational challenges related to porous media - Special session in memory of Andro Mikelic