## Accepted Manuscript

Title: A phase-field modeling approach of hydraulic fracture in saturated porous media

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PII:	\$0093-6413(16)30071-4
DOI:	http://dx.doi.org/doi:10.1016/j.mechrescom.2016.07.002
Reference:	MRC 3092

To appear in:

Received date:	1-12-2015
Revised date:	7-7-2016
Accepted date:	11-7-2016

Please cite this article as: Y. Heider, B. Markert, A phase-field modeling approach of hydraulic fracture in saturated porous media, <*![CDATA[Mechanics Research Communications]]*> (2016), http://dx.doi.org/10.1016/j.mechrescom.2016.07.002

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## **ACCEPTED MANUSCRIPT**

Hydraulic brittle fracture is simulated using a continuum porous media model extended by a phase-field modeling approach

The permanent changes of the permeability, the volume fractions as well as the interstitial-fluid flow are taken into consideration.

The fluid pressure fluctuation during crack propagation is obtained

A numerical application to demonstrate the proposed model is also introduced

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