



Vortragsankündigung

Referent:

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Thema:

**ON THE CRACK-FLUID INTERACTION
AND APPLICATIONS**

Ort:

**Ruhr-Universität Bochum
Raum IA 3/21**

Zeit:

**Donnerstag, den 16.11.2006
14:15 Uhr**

Inhalt:

The interpretation of the so-called Rehbinder effect is generally given by chemical debondings between atoms of solids with water molecules. The mechanical interaction of the debonding was given for the first time by the author's consideration of the surface tension of fluid (1996). A review of the solution and a discussion on its validity are given. An application is suggested for the erosion phenomenon of rocks, due to daily thermal cycles. Applications to hydraulic fracturing are expected with the knowledge of the fluid flow structure near the moving crack tip under constant toughness.

Veranstalter:

O.T. Bruhns, K. Hackl (Ruhr-Universität Bochum)

H. Obrecht, B. Svendsen, K. Thermann (Universität Dortmund)

Internet: www.rub.de/mechanik/kolloquium.html