Technische Universität
Berlin

Institute of Strength Physics
and Materials Science
Russian Academy of Sciences

German-Russian Workshop

Precursors of tribological instabilities and earthquakes prediction

Technische Universität Berlin

November 1-4, 2010

Organizers
Prof. Dr. Valentin Popov, Prof. Dr. Sergey Psakhie

Objectives
The aim of the workshop is to bring together specialists in the fields of earthquake dynamics and tribology and to discuss phenomena *preceding* tribological instabilities. Laboratory experiments indicate that it is possible to predict the time of instability on the basis of the slow creep preceding the instable slip. The following points should be discussed during the workshop: (a) The friction laws which are necessary for simulation of dynamics of an earthquake and for prediction of its time, (b) Problems of numerical simulation of equations of motion with these friction laws, (c) Problems of scaling of the accelerating creep.

Topics
- Laboratory models of earthquakes
- Stick-slip instabilities in frictional systems and their statistical properties
- Precursory creep and prediction of earthquakes
- Transition between stable and unstable system behavior
- Scaling problems: How can laboratory observations of stick slip events be related to real faults?

Call for papers
If you are interested in the participation, please submit an abstract in English not later than September 15, 2010 (preferably by e-mail).

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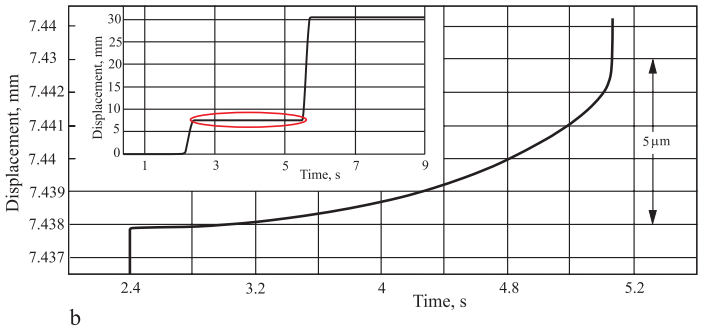

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