

Czech Technical University in Prague
Faculty of Nuclear Sciences and Physical Engineering
Departments of Mathematics and Solid State Engineering
organize a lecture

The working of metals and Deep Thought

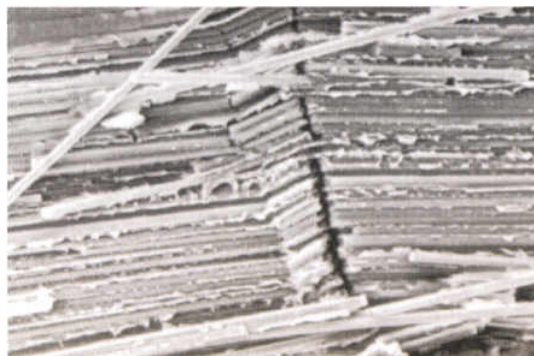
by

Prof. L. M. Brown
University of Cambridge

Abstract:

A survey is presented of a model for deformation based upon the assumption of ellipsoidal slip bands and self-organised-criticality. The role of cross-slip is emphasised. No fitting parameters are required to explain work-hardening behaviour and its relationship to the fatigue endurance limit. It seems possible to visualise new principles of alloy design.

Lecture Hall T301
building FJFI ČVUT Trojanova 13, Praha 2
9:30, Thursday September 11, 2014



within the projects

Two scales discrete-continuum approach to dislocation dynamics,
project No. P108/12/1463 of the Grant Agency of the Czech Republic

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Excellence No. P108/12/G057 of the Grant Agency of the Czech Republic