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From hfh@emil.uni-geophys.gwdg.de Wed Feb 5 16:33:49 1997  
Date: Wed, 5 Feb 1997 16:26:57 GMT  
From: hfh@emil.uni-geophys.gwdg.de (Helmut Harder)  
To: miker@gfz-potsdam.de

Dear colleague,

this is the second announcement of the

6th European Workshop on the Numerical Modeling of Mantle Convection  
and Lithospheric Dynamics

to be held in Naurod (Germany), August, 14-16, 1997.

This continues a series of workshops which have been held  
in Europe biannually since 1987.

The aim is to provide a forum of discussion for all  
aspects of numerical modeling (including technical and conceptual  
aspects, visualisation, parallel computing, and the 'philosophy' of  
modeling) in the field of mantle and lithospheric dynamics.

Following general topics will be covered by the workshop:

Rheology and mechanics of the lithosphere  
All aspects of mantle/lithosphere interaction  
Dynamics of the Earth in relation to material properties  
Plumes and melt generation  
Convection and lithospheric dynamics on other terrestrial planets  
Numerical methods (Multigrid, parallel computing, benchmarks, ...)

In addition to the normal sessions we will organize a topical  
discussion session (approx. 2 hours) on each day of the workshop.  
Suggested topics are:

25 years of numerical convection models: what have we learned  
about the Earth ?

(Did we just play computer games, or do convection models  
make direct, quantitative, and testable predictions about  
geological, geophysical and geochemical observables?)

Is the two-layer model of mantle convection dead ?

(Today, geochemists are the staunchest defenders of the two-layer  
convection model in the sense of strongly reduced radial mass  
flux between upper and lower mantle, but given the increasing  
seismological evidence for slabs in the lower mantle and the  
failure to find a convincing mechanism for strict layering,  
few geodynamists believe in it. Is a 30-year old debate close  
to being settled?)

How to integrate plates in convection models ?

(Convection is a fluid-dynamical concept, whereas plates are not.  
The failure to produce plates in a natural and self-consistent  
way is the main deficit of the existing convection models.  
Do we know the essential ingredients to make plates and how  
we can technically unify the different concepts?)

We plan to have three invited talks from  
neighbouring disciplines relevant to geodynamic modelling:

S. Karato (Minneapolis) : Rheology of the lithosphere  
R. van der Hilst (MIT) : Seismic tomography  
R. Boehler (Mainz) : High pressure mineral physics

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From hfh@emil.uni-geophys.gwdg.de Fri Aug 22 10:41:30 1997  
Date: Fri, 22 Aug 1997 11:32:14 +0200  
From: hfh@emil.uni-geophys.gwdg.de (Helmut Harder)  
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Dear colleagues,

I hope you had an enjoyable meeting in Naurod. Some of you asked for the attached email list of the participants at the workshop.

helmut

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