

**Institut of Environmental Mechanics  
and Applied Computer Science**

Kazimierz Wielki University  
Bydgoszcz



**Centre  
of Mathematical Modeling**  
Ukrainian Academy of Science  
Lviv

**Workshop**

## **Capillary Transport in Unsaturated Porous Materials**

during

**the INTERPOR Conference**

**Bydgoszcz, 20-22 October 2008**

[www.interpor.ukw.edu.pl](http://www.interpor.ukw.edu.pl)

Workshop is devoted to presentation of the state of art in the modelling and experimental research of capillary transport in unsaturated porous materials occurring in the fields where the capillary phenomena play very important role. It concerns mercury and standard porosimetry, groundwater flow, multiphase flow and transport in porous materials, hydro-engineering and engineering of porous materials, drying and wave propagation in unsaturated materials. The achievements will be presented by experts and the meeting will serve professional discussion and establishing cooperation.

### **Invited Lectures**

**Majid Hassanizadeh**, Utrecht University, Netherlands

*Truly Extended Theories of Two-Phase Flow  
Including Dynamic Capillary Pressure Effects  
and Interfacial Area*

**Pierre M. Adler**, Pierre & Marie Curie University, France

*Multiphase Flow through Porous Media  
on the Pore Scale*

**David Smeulders**, Delft University, Netherlands

*Can one Hear the Saturation of Porous Media?*

**Jolanta Lewandowska**, Joseph Fourier University, France

*Modeling of Saturated Water Flow  
in Double Porosity Media: Theory, Two-Scale  
Numerical Simulations and Experiments*

**Stefan Kowalski**, Poznan University of Technology, Poland

*Heat and Moisture Transport in Capillary  
Porous Materials Subjected to Drying Processes*

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