

# Inauguration Session of the International Centre of Vibro-Impact Systems (ICoVIS)

## Programme

**Thursday 30 September 2004**

**Wolfson School Building – Room TW.1. 12**

- 8.30-9.00      **Registration and Refreshments**
- 9.00-9.15      **Opening:** Prof. Neil HALLIWELL *Pro-Vice-Chancellor for Research, Loughborough University, UK* “Research at Loughborough”
- 9.15-10.00     Prof. Vladimir I. BABITSKY (*Loughborough, UK*) “Vibro-Impact Systems: New Developments and Challenges”
- 10.00-10.30   Prof. Raouf IBRAHIM (*Detroit, USA*) “Liquid Sloshing Impact with Structures”
- 10.30-11.00   **Refreshments - Room TW.2.10**
- 11.00-11.30   Prof. Masaaki OKUMA (*Tokyo, Japan*) “Japan Today in the World on Vibration and Acoustics”
- 11.30-12.00   Prof. Diangui HUANG (*Shanghai, China*) “Rotordynamic Characteristics of a Rotor with Gas Seals and the Coupled Fluid-Structure Vibration”
- 12.00-12.30   Prof. Alan JOHNSON (*Louisville, USA*) “Engineering Failures Due to Impact Fatigue”
- 12.30-12.50   Dr Giovanni BISUTTI and Dr Hugh HUNT (*Cambridge, UK*)  
“VMtechnology, the Most Effective Solution to Reduce Vibration Exposure for Handheld Tool Operators”
- 12.50-13.30   **Lunch- Room TW.2.10**
- 13.30-14.00   Prof. Jerzy NAJAR (*Bydgosz, Poland*) “Damage Evolution at Dynamic Processes in Brittle Materials”
- 14.00-14.20   Prof. Curt KOENDERS (*Kingston, UK*) & Prof. Richard WAKEMAN (*Loughborough, UK*) “Vibration-Assisted Dead-End Filtration: Experiments and Theoretical Concepts”
- 14.20-14.40   Dr Evgeny PETROV (*London, UK*) ”Structural Nonlinearities in Assembled Structures: Modelling and Forced Response Analysis”
- 14.40-15.00   Dr Huajiang OUYANG (*Liverpool, UK*) “Vibration of Atomising Discs Subjected to a Growing Mass”
- 15.00-15.30   **Refreshments- Room TW.2.10**
- 15.30-15.50   Dr Petri PIIROINEN (*Bristol, UK*) “Numerical Bifurcation Analysis of Vibro-Impact Systems”

- 15.50-16.10 Dr André D. L. BATAKO (*Liverpool, UK*) “A Self Exciting System for Percussive Rotary Drilling”
- 16.10-16.30 Dr Rupert SOAR (*Loughborough, UK*) “Embedding Active/Passive Fibres into Metal Matrices and Clad Structures”
- 16.30-16.50 Prof. Vladimir A. VLADIMIROV (*Hull, UK*) “On Vibrodynamics of Inverted Pendulum and Submerged Solid”
- 16.50-17.20 **Closing**

**Friday 1 October 2004**

**Wolfson School Building – Room T. 1. 45**

**Topical Workshop “Ultrasonically assisted cutting”**

- 9.00-9.30 **Registration**
- 9.30-14.30 Special Programme (including presentations from UK, Germany and Russia)

**Meeting of the International Scientific Committee of the ICoVIS**

**Wolfson School Building – Room T. 1. 45**

- 13.30-18.00 Special Agenda