3rd Polish-Scottish Workshop on Computational Mechanics and Short Course on Programming Modern FEM Systems

Cracow University of Technology, May 27-28, 2013

MAY 27 (MONDAY) Civil Engineering Faculty (main building), lecture room 310		
9:00-10:00	**C.J. Pearce** **C.T. Davie**	*A coupled, multi-phase, hygro-thermo-mechanical model for concrete*
10.00-10.20 Coffee break		
10:20-10:50	**D. Jasińska**	*Atomic-scale fem analysis of a cohesive contact problem for a graphene membrane*
10:50-11:20	**M. Stojek**	*Trefftz-type finite elements for wave phenomena. Application to offshore structures & open problems*
11:20-11:50	**S. Milewski**	*Selected computational aspects of the meshless finite difference method and their implementation in MATLAB*
11:50-12:20	**M. Słoński** **M. Tekieli**	*Particle filters for sequential parametric identification problems*
12.20-13.30 Lunch		
13:30-14:00	**Ł. Kaczmarczyk** **C. J. Pearce**	*A modelling framework for three-dimensional brittle fracture*
14:00-14:30	**R.J.D. Mackenzie** **Ł. Kaczmarczyk** **C.J. Pearce**	*A predictive model of surface tension in micro-fluids*
14:30-15:00	**J. Vignollet** **S. May** **C. Verhoosel** **R. de Borst**	*Phase-field models for brittle and cohesive fracture*
15.00-15.20 Coffee break		
15:20-15:50	**M. German** **J. Pamin**	*Simulation of reinforcement corrosion in RC member due to chloride ingress*
15:50-16:20	**M. Serafin** **W. Cecot**	*Modeling error in computational homogenization*
16:20-16:50	**J. Jaśkowiec** **F. van der Meer**	*A consistent iterative scheme for 2D and 3D cohesive crack analysis in XFEM*

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<table>
<tr><td colspan="3" align="center">MAY 28 (TUESDAY)
Electrical and Computer Engineering Faculty, room 17 (lab E, top floor)</td></tr>
<tr><td>9:00-10:00</td><td>Y. Renard</td><td><i>GetFEM++: a generic finite element library</i></td></tr>
<tr><td colspan="3" align="center">10.00-10.20 Coffee break</td></tr>
<tr><td>10:20-11:10</td><td>Y. Renard</td><td><i>The contact condition on crack lips with xfem</i></td></tr>
<tr><td>11:10-11:35</td><td>A. Andreykiv
L. Jin Lim
R. Brinkgreve</td><td><i>A level set based algorithm for simulation of large sliding contact between domains modelled with finite element and material point methods</i></td></tr>
<tr><td>11:35-12:00</td><td>L. Jin Lim
A. Andreykiv
R. Brinkgreve</td><td><i>Large deformation analysis with material point method</i></td></tr>
<tr><td colspan="3" align="center">12.00-13.30 Lunch</td></tr>
<tr><td>13:30-14:30</td><td>R. Putanowicz</td><td><i>Building environment for FEM programming. Problems, tools, solutions</i></td></tr>
<tr><td colspan="3" align="center">14.30-15.00 Discussion</td></tr>
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