

Conference Programme

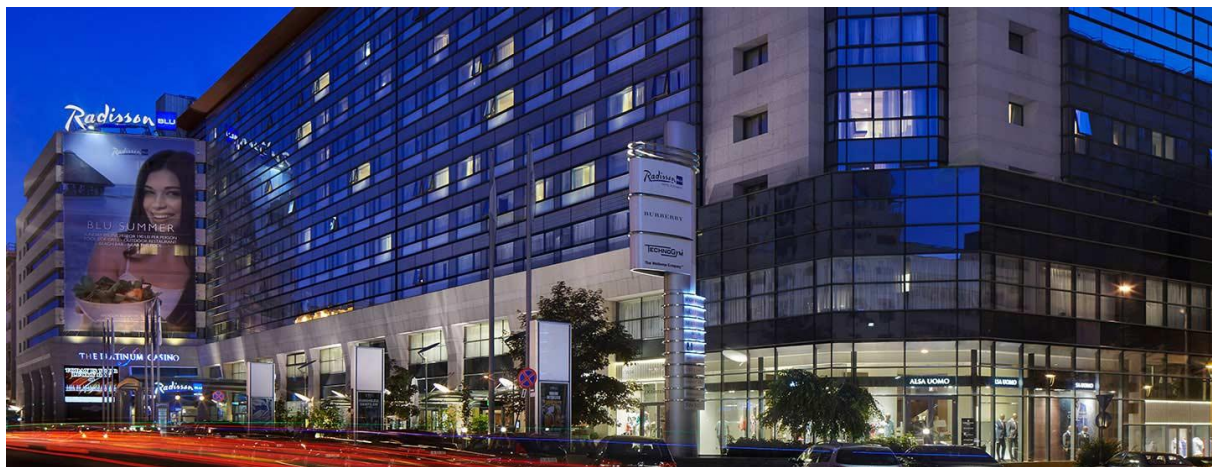
International Conference on Boundary Element and Meshless Techniques

BeTeq 2017

Conference Venue: Radisson Blue

Calea Victoriei, 63-81 Sector 1 10065 Bucharest Romania

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Day 1: 11th July 2017	
8.30	Registration
9.15 Session 1	Welcome address Chair: Liviu Marin
9.20	Keynote paper: Alternative Boundary Integral Equations for Fracture Mechanics in 2D Anisotropic Bodies Vincenzo Gulizzi, Ivano Benedetti, Alberto Milazzo
10.00	Multi-scale Homogenization Process for Nodular Cast Iron Using BEM Adrián Alberto Betancur Arroyave & Carla Tatiana Mota Anflor
10.30	Break
Session 2	Chair: Akpofure E. Taigbenu
11.00	Viscous axisymmetric MHD flow about a solid sphere translating in a circular solid tube T. Celik, S. H. Aydin and A. Sellier
11.30	3D Vortex Approach to the Unsteady Flow Generated by a Flapping Insect Wing M. Denda
12.00	Particle-particle interactions in axisymmetric MHD viscous flow S. H. Aydin and A. Sellier
12.30	Three-dimensional Analysis of Generally Anisotropic Piezoelectric Materials by the BEM Based upon Radon-Stroh Formalism, Chung-Lei Hsu, Y.C. Shiah, and Chyanbin Hwu
12.30	Lunch
Session 3	Chair: Alberto Milazzo
14.00	An efficient boundary element procedure to evaluate the design of cathodic protection systems of tank bottoms W. J. Santos, S.L.D.C. Brasil, J. A. F. Santiago and J. C. F. Telles
14.30	Boundary element crystal plasticity method Ivano Benedetti, Vincenzo Gulizzi, Vincenzo Mallardo
15.00	Solution of the Elastodynamic Contact Problem for Cracked Body Using Boundary Integral Equation Method V.V. Zozulya
15.30	Break
Session 4	Chair: L Rodriguez-Tembleque
16.00	Superficial 3D mesh generation process using multimedia software for multiscale bone analysis D.M. Prada, A.F. Galvis and P. Sollero
16.30	BEM analysis of crack paths modelled as a sequence of interfacial debonds in unidirectional composites L. Tavara, V. Mantic
17.00	Extending the method of fundamental solutions to potential problems with discontinuous boundary conditions Svilen S. Valtchev and Carlos J.S. Alves
	End of Day One

Day 2: 12th July 2017	
Session 6	Chair: Franck Delvare
9.00	Keynote: Inverse simulations of accidental spills in groundwater by the Green element method Akpofure Taigbenu
9.40	Fundamental three-dimensional MHD creeping flow bounded by a plane motionless wall normal to a uniform ambient magnetic field A Sellier and S. H. Aydin
10.10	Application of Boundary Element Method to evaluate the Seismic Site Effects of Adjacent Non-curved Valleys Zahra Khakzad, Dana Amini Baneh and Behrouz Gatmiri
10.40	Break
Session 7	Chair: M Denda
11.10	A meshless fading regularization algorithm for the Cauchy problem associated with 2D Helmholtz-type equations Laëtitia Caillé, Franck Delvare, Liviu Marin and Nathalie Michaux-Leblond
11.40	The Choice of the Shape Parameter in a Purely Scattered Data Setting II Lin-Tian Luh
12.10	An efficient hybrid implementation of MLPG method M. Barbosa, E.F. Fontes Jr, J.C.F. Telles, W.J. Santos
12.40	Lunch
Session 8	Chair: Ivano Benedetti
14.00	Spectral BEM for wave propagation and crack dynamics Jun Li, Z Sharif Khodaei, M H Aliabadi
14.30	Boundary element formulation for crack surface contact simulation in piezoelectric materials L. Rodriguez-Tembleque, F. Garcia-Sanchez, A. Saez and M. Wunsche
15.00	A Boundary Spectral Element Model for Piezoelectric Smart Structures Fangxin Zou, M. H. Aliabadi
15.30	Break
Session 5	Chair: N Dumont
16.00	The PWM for the identification of a sound-soft interior acoustic scatterer Andreas Karageorghis Daniel Lesnic and Liviu Marin
16.30	Identification from partial full-field measurements using a fading regularization MFS algorithm Laëtitia Caillé, Franck Delvare, Nathalie Michaux-Leblond and Jean-Luc Hanus
17.00	BEM gradient based iterative algorithms for inverse BVPs in steady-state anisotropic heat conduction L. Marin
17.30	Probability of failure in Reissner plates with BEM Ernesto Pineda-León, Dante Tolentino and Alejandro Rodríguez-Castellanos
	End of Day 2

Day 3: 13th July 2017	
Session 10	Antoine Sellier
9.00	Keynote: Using drag Eulerlets Edmund Chadwick , James Christian and Kiran Chalasani
9.40	A quasi-static model of delamination for structures made of anisotropic layers implemented by SGBEM and nonlinear programming R Vodicka and F Ksinan
10.10	Multi-Fidelity Modelling for Structural Reliability Analysis Llewellyn Morse , Zahra Sharif Khodaei, M. H. Aliabadi
10.40	Break
Session 11	Chair: Vincenzo Mallardo
11.10	A Boundary Element Implementation for Fracture Mechanics Problems using Generalized Westergaard Stress Functions Ney Augusto Dumont, Elvis Yuri Mamani and Marilene Lobato Cardoso
11.40	An overview of the peridynamics (PD) formulation with the extended boundary element method (XBEM) for dynamic fracture G. Hattori and J. Trevelyan
12.10	Spherical harmonics expansion of fundamental solutions and their derivatives for homogenous elliptic operators Vincenzo Gulizzi, Alberto Milazzo , Ivano Benedetti
12.40	Micromechanical boundary element modelling of transgranular and intergranular cohesive cracking in polycrystalline materials G. Geraci, M.H. Aliabadi
13.10	Lunch
	End of the Conference