# **CONFERENCE PROGRAMME**



The 39th International Conference on Boundary Elements and other Mesh Reduction Methods



## BEM 2016

#### NOTES TO CHAIRMEN AND PRESENTERS

Chairmen must be in their respective rooms 10 minutes before the start of their session to meet with the presenting authors.

Authors must meet with the Chairman of their session 10 minutes before the start of the session.

Authors must keep strictly to the time allocated for their presentation to ensure the smooth running of the programme.

This programme is subject to last-minute alterations, please refer to the conference noticeboard for the most up-to-date information.

### 20-22 September 2016

### Siena, Italy

### Organised by:

Wessex Institute, UK University of Mississippi, USA

Supported by:

WIT Transactions on the Engineering Sciences International Journal of Computational Methods and Experimental Measurements International Journal of Engineering Analysis with Boundary Elements



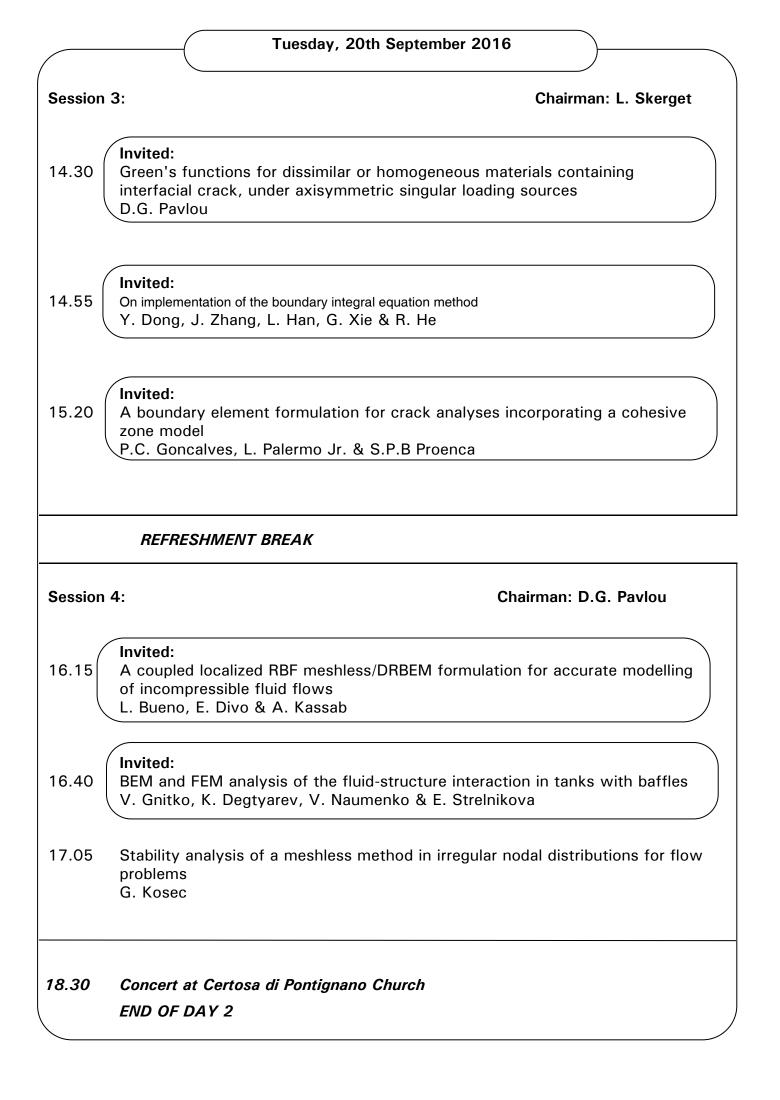
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### BEM 2016

20-22 September 2016, Siena, Italy



Tuesday, 20th September 2016	
<ul><li>08.00 Registration</li><li>09.00 Opening Address</li></ul>	
Session 1: Chairman	n: C. Brebbia
09.20 Invited: A novel fast-multipole implementation of boundary element computational features and performance assessments N.A. Dumont & H. de Farias Costa Peixoto	methods:
09.45 Invited: Is ill-conditioning associated with $C\infty$ basis functions a disa E. Kansa	aster?
10.10 Invited: Parallelisation techniques for the dual reciprocity and time-or Element Method algorithms T. Bashford, K. Donne, A. Marotin & A. Al-Hussany	dependent Boundary
10.35 Invited: Convergence studies for an adaptive meshless least-squares K. Chun Cheung & L. Ling	s collocation method
REFRESHMENT BREAK	
Session 2: Chairman	n: N. Dumont
11.30 Invited: On solvability of the BVP formulated in terms of displacement the interface between dissimilar elastic materials A.N. Galybin	ent orientations on
<ul> <li>Invited:</li> <li>Determinsitic-stochastic boundary element modeling of the exposed to high frequency radiation</li> <li>D. Poljak, M. Cvetkovic, H. Dodig, S. Lallechere, K. El Khan</li> <li>P. Bonnet</li> </ul>	
12.20 Invited: Acoustic fluid-structure interaction of ships by coupled fast approaches L. Gaul, D. Brunner & M. Junge	: BE-FE
LUNCH	



	Joint Session with HPSM and MARAS
Session !	5 Chairman: C. Brebbia
09.00	Opening Address Presentation of the George Green Medal to Professor Alex Cheng
09.30 (	Keynote Address by A.Cheng From BEM, Green's Function, to meshless method– Personal reminiscence
10:00	Keynote by S. Hernandez International space stations: A successful history of mobile and deployable structures
	REFRESHMENT BREAK
Session (	6 Chairman: A. Cheng
11.00	Weight and cost multi-objective optimization of hybrid composite sandwich structures A.I. Salem & S.L. Donaldson
11.25	Sizing optimization for industrial applications and best practice design process N. Gerzen, P.M. Clausen & C.B.W. Pedersen
11.50	Study of optimum shape and strength design of redesigned Zig-Zag chair T. Mori, Y. Ohbuchi, H. Iida, K. Tsukamoto, Y. Nakamura & H. Sakamoto
	A bio-inspired graphene composite material
12.15	A. Cheng

### Wednesday, 21st September 2016

Session 7	Session Chairman: A.N. Galybin
	erpolation blending scheme for effective shock-capturing A. Kassab & E. Divo
of Navier-S	ation of the Rosseland and the radiation models in the system tokes equations with the boundary element method Skerget, J. Ravnik & M. Hribersek
of the trans lower half-s	post-processing of the deterministic boundary element modelling sient electric field from GPR dipole antenna propagating through space S. Sesnic, S. Lallechere & K. El Khamlichi Drissi
	AFTERNOON GUIDED VISIT TO SIENA
16.00 Bus departs	s to Siena
the spectacular Piazz and is surrounded by backdrop for the Cors yearly, which dates b	r a guide to show you around the medieval city of Siena including a del Campo, its fan-like shape fits the natural slope of the ground renaissance buildings and local restaurants. This provides a splendid sa del Palio, a fast and furious bareback horse race held twice back to the 15th century and a tradition representing neighbourhood very seriously by the Sienese.
12th century. The im cathedral is uncovere	it to the Duomo di Siena (Siena Cathedral) which dates back to the pressive mosaic marble floor which covers the entire floor of the d during September. It is thought that approximately 40 artists on of the mosaic floor which is one of the most ornate to be found
END OF DAY 2	
CONFERENCE D	<b>INNER</b> — Speak to the Conference Coordinator for details

### Thursday, 22nd September 2016

Session 8	8: Chairman: A. Cheng
09.00	Invited: Solution of the transient thermal diffusion equation using the time dependent boundary element method K.E. Donne, A. Marotin & T. Bashford
09.25	Invited: Solution of energy transport equation with variable material properties by BEM J. Ravnik, L. Skerget, J. Tibaut & B.W. Yeigh
09.50	Invited: Simulations of coupling effects in vibration of FGM plates by mesh-free methods V. Sladek, L. Sator & J. Sladek
10.15	The three-dimensional quasi-periodic boundary element method: Implementation evaluation, and use cases H. Ziegelwanger, P. Reiter & M. Conter
	REFRESHMENT BREAK
Session S	9: Chairman: C. Brebbia
11.10	Electrostatic Corrosion Analysis with Damaged Passive Film Model of Stainless Steel O. Kuwazuru, M. Yamada, K. Ode & W. Liu
11.35	Application of the sparse cardinal sine decomposition to 3D stokes flows F. Alouges, M. Aussal, A. Lefebvre-Lepot, F. Pigeonneau & A. Sellier
	T. Alouges, M. Aussal, A. Lerebvie Lepot, T. Figeonineau & A. Jeiner

### END OF BEM 2016

We hope you have enjoyed the conference and look forward to seeing you at the next meeting in the series, have a safe and pleasant journey home.