

**第十届全国工程计算方法学术会议暨  
GCWCOME2012**

**Technical Program**

**25-28 May, Changsha, China**

## PROGRAM-AT-A-GLANCE

	25 <sup>th</sup> May Friday		26 <sup>th</sup> May Saturday		27 <sup>st</sup> May Sunday		28 <sup>st</sup> May Monday
Morning	Registration		08:00 - 08:30	Opening Ceremony	08:20 - 10:00	Parallel Sessions	One-day Sightseeing Tour
			08:30 - 10:00	Plenary Lecture			
			10:00 - 10:20	Tea Break	10:00 - 10:20	Tea Break	
			10:20 - 12:00	Parallel Sessions	10:20 - 12:00	Parallel Sessions	
Afternoon			12:00 - 14:00	Lunch & Rest	12:00 - 14:00	Lunch & Rest	
			14:00 - 16:00	Parallel Sessions	14:00 - 15:40	Parallel Sessions	
			16:00 - 16:20	Tea Break	15:40 - 16:00	Tea Break	
			16:20 - 18:00	Parallel Sessions	16:00 - 18:00	Plenary Lecture	
Evening	18:30 - 20:30	Dinner	18:30 - 20:30	Banquet	18:30 - 19:30	Dinner	

Parallel sessions mean several Sessions at the same time. The report time for plenary lecture is 30 minutes (including 25 minutes' presentation and 5 minutes' Q&A). The invited report time in parallel sessions is 20 minutes (including 15 minutes' presentation and 5 minutes' Q&A). The report time in parallel sessions for each general delegate is 20 minutes (including 15 minutes' presentation and 5 minutes' Q&A).

**PROGRAM-OF-PRESENTATION-DAYS**

26 <sup>th</sup> May Saturday			
Room	Room 401	Room 531	Room 516
8:30-10:00	8:00-8:30 OC & 8:30-9:00 PL1, 9:00-9:30 PL2 9:30-10:00 PL3		
10:00-10:20	Tea Break		
10:20-12:00	S01-1 (5 SPKRS)	S02-1 (5 SPKRS)	S03-1 (5 SPKRS)
12:00-14:00	Lunch & Rest		
14:00-16:00	S01-2 (6 SPKRS)	S02-2 (6 SPKRS)	S03-2 (6 SPKRS)
16:00-16:20	Tea Break		
16:20-18:00	S01-3 (5 SPKRS)	S02-3 (5 SPKRS)	S03-3 (5 SPKRS)
18:30-20:30	Special Banquet		

27 <sup>st</sup> May Sunday			
Room	Room 401	Room 531	Room 516
8:20-10:00	S01-1 (5 SPKRS)	S02-1 (5 SPKRS)	S03-1 (5 SPKRS)
10:00-10:20	Tea Break		
10:20-12:00	S01-2 (5 SPKRS)	S02-2 (5 SPKRS)	S01-5 (5 SPKRS)
12:00-14:00	Lunch & Rest		
14:00-15:40	S01-3 (5 SPKRS)	S01-4 (5 SPKRS)	S01-6 (4 SPKRS)
15:40-16:00	Tea Break		
16:00-18:00	16:00-16:30 PL1, 16:30-17:00 PL2 17:00-17:30 PL3, 17:30-18:00 PL4		

In the above table, OC - Opening Ceremony; PL - Plenary Lecture; S - Session; SPKRS - speakers.

**PROGRAM-OF- ONE-DAY SIGHTSEEING TOUR**

	<b>28<sup>th</sup> May Monday</b>	
	<b>Touring Route 1</b>	<b>Touring Route 2</b>
<b>8:00-9:20</b>	<b>Visiting Yuelu Academy</b>	
<b>9:30-16:00</b>	<b>Shaoshan one-day sightseeing tour</b>	<b>Changsha City one-day sightseeing tour</b>
<b>16:00</b>	<b>End of the tour</b>	

# **SATURDAY**

**26 May**

- Part 1:** PL1) Plenary Lecture I  
PL2) Plenary Lecture II  
PL3) Plenary Lecture III
- Part 2:** S01) Boundary Element Methods  
S02) Meshless Methods  
S03) Finite Element Methods, Analytic Methods and Numerical Technology
- Part 3:** S01) Boundary Element Methods  
S02) Meshless Methods  
S03) Finite Element Methods, Analytic Methods and Numerical Technology
- Part 4:** S01) Boundary Element Methods  
S02) Meshless Methods  
S03) Finite Element Methods, Analytic Methods and Numerical Technology

Session Date	Session Name	Session Room	Start & End Time	Session Notes	Presentation Title	Presenter Name
<b>Plenary Lectures</b>						
<b>2012-05-26 Room 401 8:30-10:00 Chair: Prof. Zhenhan Yao &amp; Prof. Yijun Liu:</b>						
26-May	PL1	Room 401	8:30-9:00		Review of BEM development in Taiwan and recent advances by NTOU/MSV group	Prof. J. T. Chen
26-May	PL2	Room 401	9:00-9:30		偶应力理论及其有限元法的几个问题	陈万吉教授
26-May	PL3	Room 401	9:30-10:00		基于快速边界面的全自动 CAE 软件开发进展	张见明教授
<b>Sessions</b>						
<b>2012-05-26 Room 401 S01: Boundary Element Methods</b>						
<b>2012-05-26 Room 401 10:00-12:30 S01-1: Session Chairs: Prof. C. Y. Dong:</b>						
26-May	S01-1	Room 401	10:20-10:40	Invited	Variable topology BEM for the modeling of bubble motion	Z. Zong
26-May	S01-1	Room 401	10:40-11:00	Invited	Inverse Identification of Boundary Conditions for 2-D Elasticity Problems by Using the BEM	Huanlin Zhou
26-May	S01-1	Room 401	11:00-11:20		压电材料三维断裂分析中的边界元方法	李群
26-May	S01-1	Room 401	11:20-11:40		Boundary Element Approximation for Maxwell's Eigenvalue Problem	Jiping Xin
26-May	S01-1	Room 401	11:40-12:00		Parameter identification in non-homogeneous and non-linear heat conduction using BEM based on complex variable differentiation method	Xiao-Chun Yu
<b>2012-05-26 Room 401 14:00-16:00 S01-2: Session Chairs: Prof. Xiao-Wei Gao:</b>						
26-May	S01-2	Room 401	14:00-14:20	Invited	Boundary element analysis of three dimensional nanoscale inhomogeneities	C. Y. Dong
26-May	S01-2	Room 401	14:20-14:40	Invited	To assess on dynamic property with drainage of a pile in saturated soil by BEM of Green's function	B. Y. Ding
26-May	S01-2	Room 401	14:40-15:00	Invited	Numerical Solution of Stress Intensity Factors of Multiple Cracks in Great Number with Eigen COD Boundary Integral Equations	H. Ma
26-May	S01-2	Room 401	15:00-15:20	Invited	Radial Integration BEM for Two Dimensional Phase Change Problems	Wei-An Yao
26-May	S01-2	Room 401	15:20-15:40	Invited	A Boundary Element Method with Global Matrix Propagator for Seismo-acoustic Scattering Simulation	Z.-H. Qian
26-May	S01-2	Room 401	15:40-16:00		Inverse Identification of Boundary Conditions for 2-D Elasticity Problems with Thin Structures by Using the BEM	Wei Jiang

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Session Date	Session Name	Session Room	Start & End Time	Session Notes	Presentation Title	Presenter Name
<b>2012-05-26 Room 401 16:20-18:00 S01-3: Session Chairs: Prof. Z. Zong:</b>						
26-May	S01-3	Room 401	16:20-16:40	Invited	Element Nodal Computation-Based Radial Integration BEM for Nonhomogeneous and Nonlinear Problems	Xiao-Wei Gao
26-May	S01-3	Room 401	16:40-17:00	Invited	Chebyshev wavelet for hypersingular integrals on circle and its application	M. X. Yi
26-May	S01-3	Room 401	17:00-17:20	Invited	Analytical and numerical investigation for the true and spurious eigenvalues by using the dual BIEM/BEM	P. S. Kuo
26-May	S01-3	Room 401	17:20-17:40		The Expolation Methods for Computing Cauchy Principal Value Integral on Interval	J. Li
26-May	S01-3	Room 401	17:40-18:00		On the computation of the half-space impedance Green' s function for 3-D Acoustic problems	Haijun Wu
<b>2012-05-26 Room 531 S02: Meshless Methods</b>						
<b>2012-05-26 Room 531 10:20-12:00 S02-1: Session Chair: 刘谋斌研究员:</b>						
26-May	S02-1	Room 531	10:20-10:40	Invited	正则化稳定节点积分无网格损伤分析方法	王东东
26-May	S02-1	Room 531	10:40-11:00	Invited	混合广义不连续位移-基本解(HEDD-FS)方法在智能材料弹塑性断裂中的应用	赵明峰
26-May	S02-1	Room 531	11:00-11:20	Invited	A moving Kriging interpolation based boundary node method for two-dimensional elasticity problems	X. G. Li
26-May	S02-1	Room 531	11:20-11:40		A scaled boundary node method applied to two-dimensional crack problems	S. S. Chen
26-May	S02-1	Room 531	11:40-12:00		Numerical modeling of wave propagations in jointed rock masses	Y. J. Ning
<b>2012-05-26 Room 531 14:00-16:00 S02-2: Session Chair: 王东东教授:</b>						
26-May	S02-2	Room 531	14:00-14:20	Invited	耗散粒子动力学 DPD 方法与应用研究进展	刘谋斌
26-May	S02-2	Room 531	14:20-14:40	Invited	Discussion on the Application of Cellular Automaton in Solid Mechanics	W. F. Yuan
26-May	S02-2	Room 531	14:40-15:00	Invited	Numerical Simulation of One Dimension Detonation in Condensed Explosive by SPH method with Ignition and Growth Model	G. Yang
26-May	S02-2	Room 531	15:00-15:20		纤维复合材料板超高速碰撞实验数值仿真	宋振飞
26-May	S02-2	Room 531	15:20-15:40		Simulation of breaking waves by using an improved SPH	Xing Zheng
26-May	S02-2	Room 531	15:40-16:00		纤维类防护材料超高速撞击建模与性能评价	赵士操

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Session Date	Session Name	Session Room	Start & End Time	Session Notes	Presentation Title	Presenter Name
<b>2012-05-26 Room 531 16:20-18:00 S02-3: Session Chair: 赵明隳教授:</b>						
26-May	S02-3	Room 531	16:20-16:40	Invited	自适应物质点有限元法及其在侵彻等大变形问题中的应用	张雄
26-May	S02-3	Room 531	16:40-17:00	Invited	A Combined Molecular Dynamics and Material Point Method Framework for Hyper-velocity Impact Process	Yan Liu
26-May	S02-3	Room 531	17:00-17:20	Invited	层状流体饱和土瞬态动力学特性研究的 DQEM	朱媛媛
26-May	S02-3	Room 531	17:20-17:40		Singular boundary method for 3D steady-state heat conduction problems	Y. Gu
26-May	S02-3	Room 531	17:40-18:00		Boundary knot method solution to Helmholtz problems with singular boundary	D. J. Shen
<b>2012-05-26 Room 516 S03: FEM, Numerical Technology and Analytic Methods</b>						
<b>2012-05-26 Room 516 10:20-12:00 S03-1: Session Chairs: 陈万吉教授:</b>						
26-May	S03-1	Room 516	10:20-10:40	Invited	无旋单元及其应用	周晔欣
26-May	S03-1	Room 516	10:40-11:00	Invited	Special elements for discontinuous concentrated forces in plane elastic solids	H. Wang
26-May	S03-1	Room 516	11:00-11:20	Invited	C0 型整体-局部高阶理论及层合板单元	吴振
26-May	S03-1	Room 516	11:20-11:40		Quasi-static Crack Propagation Simulation based on HSF Element	M. J. Zhou
26-May	S03-1	Room 516	11:40-12:00		Two conforming quadrilateral spline elements for thin plate bending using area coordinates and B-net method	Chong-Jun Li
<b>2012-05-26 Room 516 14:00-16:00 S03-2: Session Chairs: Prof. Chein-Shan Liu:</b>						
26-May	S03-2	Room 516	14:00-14:20	Invited	Plastic stress singularities of plane notches in hardening materials	Z. R. Niu
26-May	S03-2	Room 516	14:20-14:40	Invited	The solving of characteristic differential equation of the elasticity and the construction of the associated finite elements	Xiangrong Fu
26-May	S03-2	Room 516	14:40-15:00	Invited	基于余能原理的有限变形问题基面力元法的计算性能	彭一江
26-May	S03-2	Room 516	15:00-15:20		基于同伦分析方法的智能材料热力序诱发相变及微结构演化	宣辰
26-May	S03-2	Room 516	15:20-15:40		Study of the Effect of Non-singular Stress on the Crack Fatigue Life	C. Z. Cheng
26-May	S03-2	Room 516	15:40-16:00		Nonlinear Quadrature Element Analysis of Composite Beams with Partial Interaction	Z. Q. Shen



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2012-05-26 Room 516 16:20-18:00 S03-3: Session Chairs: Prof. Xiangrong Fu:						
26-May	S03-3	Room 516	16:20-16:40	Invited	Optimally Generalized Regularization Methods for Solving Linear Inverse Problems	Chein-Shan Liu
26-May	S03-3	Room 516	16:40-17:00	Invited	A multidimensional parallelepiped based convex model for uncertainty quantification of non-probabilistic uncertainty	C. Jiang
26-May	S03-3	Room 516	17:00-17:20	Invited	Shape and size optimization design of the cores of the corrugated sandwich panels by crashworthiness criterion	S. J. Hou
26-May	S03-3	Room 516	17:20-17:40		A Hamiltonian-based Derivation of Scaled Boundary Finite Element Method for Dam Reservoir Interaction	Z. Q. Hu
26-May	S03-3	Room 516	17:40-18:00		Crushing analysis and multi-objective crashworthiness optimization of functionally lateral graded foam-filled tubes	H. F. Yin

# SUNDAY

**27 May**

- Part 1:** S01) Boundary Element Methods  
S02) Meshless Methods  
S03) Finite Element Methods, Analytic Methods and Numerical Technology
- Part 2:** S01) Boundary Element Methods  
S02) Meshless Methods
- Part 3:** S01) Boundary Element Methods
- Part 4:** PL4) Plenary Lecture IV  
PL5) Plenary Lecture V  
PL6) Plenary Lecture VI  
PL7) Plenary Lecture VII

Session Date	Session Name	Session Room	Start & End Time	Session Notes	Presentation Title	Presenter Name	Nation
<b>Sessions</b>							
<b>2012-05-27 Room 401 S01: Boundary element methods</b>							
<b>2012-05-27 Room 401 08:20-10:00 S01-1: Session Chairs: Prof. H. B. Chen:</b>							
27-May	S01-1	Room 401	08:20-08:40	Invited	Investigation of elastic wave propagation in inhomogeneous materials using pFFT accelerated Boundary Element Method	Jun Zhang	
27-May	S01-1	Room 401	08:40-09:00	Invited	Fast Frequency Domain BEM for Large-scale Transient Elastodynamic Analysis	Jinyou Xiao	
27-May	S01-1	Room 401	09:00-09:20	Invited	Application of the pFFT Algorithm to the Hybrid-domain BEM for Acoustic Problems	Z. Y. Yan	
27-May	S01-1	Room 401	09:20-09:40		A fast boundary knot method for Helmholtz problems of regular 2D and 3D domains with very high	X. R. Jiang	
27-May	S01-1	Room 401	09:40-10:00		An Adaptive Fast Multipole Boundary Element Method Applied to Calculate the Sound Attenuation by T-shape Barriers	Y. G. Wang	
<b>2012-05-27 Room 401 10:20-12:00 S01-2: Session Chairs: Prof. Yijun Liu:</b>							
27-May	S02-2	Room 401	10:20-10:40	Invited	Fast multipole boundary element sensitivity analysis and its applications to shape optimization of noise barriers	H. B. Chen	
27-May	S02-2	Room 401	10:40-11:00	Invited	Study on the suitability of FMBEM for complex internal sound field computation	X. B. Cui	
27-May	S02-2	Room 401	11:00-11:20	Invited	多域快速边界元法用于复合材料导热性能分析大规模计算	王海涛	
27-May	S02-2	Room 401	11:20-11:40		Wideband fast multipole boundary element method: Applications to half-space/plane-symmetric acoustic wave problems	C. J. Zheng	
27-May	S02-2	Room 401	11:40-12:00		A wideband FMBEM for 2D acoustic shape sensitivity analysis based on direct differentiation method	L. L. Chen	

Session Date	Session Name	Session Room	Start & End Time	Session Notes	Presentation Title	Presenter Name	Nation
<b>2012-05-27 Room 401 14:00-15:40 S01-3: Session Chairs: Prof. J. T. Chen:</b>							
27-May	S01-3	Room 401	14:00-14:20	Invited	Green' s Functions in Anisotropic Magneto-electro-elastic Bimaterial Space under Interior Dislocations and Forces over a Circular Area	Yanfei Zhao	
27-May	S01-3	Room 401	14:20-14:40	Invited	Study on degenerate scales for a circular, elliptical, regular N-gon, half-disc domains using the BEM and conformal mapping	Y. W. Chen	
27-May	S01-3	Room 401	14:40-15:00	Invited	Novel Regularized Boundary Element Method for 3D-Potential Problems	Yaoming Zhang	
27-May	S01-3	Room 401	15:00-15:20	Invited	Recent advances in stochastic spline fictitious boundary element method	C. Su	
27-May	S01-3	Room 401	15:20-15:40		Development of Complex Variable Differentiation Method and its Application in Isogeometric Analysis	Jin-Xiu Hu	
<b>2012-05-27 Room 531 14:00-15:40 S01-4: Session Chairs: 姚振汉教授:</b>							
27-May	S01-4	Room 531	14:00-14:20		用界面法分析含有孔洞结构的稳态传热问题	覃先云	
27-May	S01-4	Room 531	14:20-14:40		界面法中网格划分的细小特征的处理	陆陈俊	
27-May	S01-4	Room 531	14:40-15:00		应用界面法及快速多级子界面法求解声学辐射和散射问题	王现辉	
27-May	S01-4	Room 531	15:00-15:20		含有细小孔洞结构上的瞬态传热分析	周枫林	
27-May	S01-4	Room 531	15:20-15:40		线弹性断裂力学边界元超奇异积分及其处理方法	谢贵重	
<b>2012-05-27 Room 516 10:20-12:00 S01-5: Session Chairs: 张见明教授:</b>							
27-May	S01-5	Room 516	10:20-10:40		瞬态传热分析中域内积分的转化	郭帅平	
27-May	S01-5	Room 516	10:40-11:00		基于 CUDA 高性能并行计算的界面法研究	余列祥	
27-May	S01-5	Room 516	11:00-11:20		基于三维弹性屈曲分析的界面法实现	费柏平	
27-May	S01-5	Room 516	11:20-11:40		用于界面法的含有细小管道三维实体的混合网格生成方法	黄橙	
27-May	S01-5	Room 516	11:40-12:00		基于 ParaView 和 ExodusII 的界面法后处理	庄超	

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Session Date	Session Name	Session Room	Start & End Time	Session Notes	Presentation Title	Presenter Name	Nation
<b>2012-05-27 Room 516 14:00-15:40 S01-6: Session Chairs: 张见明教授:</b>							
27-May	S01-6	Room 516	14:00-14:20	Invited	Coupled Hybrid Boundary Node Method and Finite Element Method for the Analysis of Reinforced Concrete Members	Y. Miao	
27-May	S01-6	Room 516	14:20-14:40		快速界面法在水坝热传导分析中的应用	何建平	
27-May	S01-6	Room 516	14:40-15:00		基于界面法的瞬态弹性动力学分析	李源	
27-May	S01-6	Room 516	15:00-15:20		界面法在弹性共形接触问题中的应用	郑兴帅	
27-May	S01-6	Room 516	15:20-15:40				
<b>2012-05-27 Room 531 S02: Meshless Methods</b>							
<b>2012-05-27 Room 531 08:20-10:00 S02-1: Session Chairs: 申胜平教授;</b>							
27-May	S02-1	Room 531	08:20-08:40	Invited	利用 MLPG 法分析弹性动态断裂力学问题	龙述尧	
27-May	S02-1	Room 531	08:40-09:00	Invited	The Penetration Analysis of Concrete Plate by Three Dimensional FE-SPH Adaptive Coupling Algorithm	De' an Hu	
27-May	S02-1	Room 531	09:00-09:20	Invited	A new complex variable element free Galerkin method	Yumin Cheng	
27-May	S02-1	Room 531	09:20-09:40		An Element-free Galerkin scaled boundary method for steady-state heat transfer problems	Yiqian He	
27-May	S02-1	Room 531	09:40-10:00		Topology Optimization of Geometrically Non-linear Gontinuum Structures Based on the Element Free Galerkin Method	J. Zheng	
<b>2012-05-27 Room 531 10:20-12:00 S02-2: Session Chairs: 龙述尧教授:</b>							
27-May	S02-2	Room 531	10:20-10:40	Invited	层合结构热传导界面效应的多尺度模拟	申胜平	
27-May	S02-2	Room 531	10:40-11:00		Generalized Neumann Expansion and its Application in the Stochastic System of Linear Algebraic Equations	X. Y. Wang	
27-May	S02-2	Room 531	11:00-11:20		Application of the hybrid boundary node method in 3D thin structures	Q. Wang	
27-May	S02-2	Room 531	11:20-11:40		流体饱和半空间弹性波散射问题的基本解方法	刘中宪	
27-May	S02-2	Room 531	11:40-12:00		Improved Singular Boundary Method for Various Infinite domain Wave Applications	Z. J. Fu	

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Session Date	Session Name	Session Room	Start & End Time	Session Notes	Presentation Title	Presenter Name	Nation
<b>2012-05-27 Room 516 S03: FEM, Numerical Technology and Analytic Methods</b>							
<b>2012-05-27 Room 516 11:00-12:30 S03-1: Session Chairs: Prof. Chein-Shan Liu:</b>							
27-May	S03-1	Room 516	08:20-08:40	Invited	A nonlinear optimization algorithm for lower bound limit and shakedown analysis	Y. H. Liu	
27-May	S03-1	Room 516	08:40-09:00	Invited	Simulation of damage evolution in particle reinforced composites with Voronoi cell finite element method	Ran Guo	
27-May	S03-1	Room 516	09:00-09:20		Numerical Simulation of Heat Transfer Capacity of High-temperature Heat Pipe	D. H. Liu	
27-May	S03-1	Room 516	09:20-09:40		Study on Seismic Performance of an Out-of-code High-rise Building	Kai Hu	
27-May	S03-1	Room 516	09:40-10:00		汽轮发电机支持筋隔振系统的动力学分析	张新齐	
<b>Plenary Lecture</b>							
<b>2012-05-27 Room 516 11:00-12:30 S03-1: Session Chairs: 张见明教授 &amp; Prof. J. T. Chen:</b>							
27-May	PL4	Room 401	16:00-16:30		Scattered Point Collocation Method for Solution of PDE—An Overview	Prof. Alexander H. D. Cheng	
27-May	PL5	Room 401	16:30-17:00		New Developments in the Fast Multipole and ACA BEM for Modeling Large-Scale 3-D Acoustic Problems	Prof. Yijun Liu	
27-May	PL6	Room 401	17:00-17:30		奇异边界法的最新进展	陈文教授	
27-May	PL7	Room 401	17:30-18:00		Some investigation on the accuracy of fast BE computation using ACA	Prof. Zhenhan Yao	

## Affiliation List of Conference Participants

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GCWCOME2012 Technical Program

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第十届全国工程计算方法学术会议暨

Global Chinese Workshop on Computational Methods in Engineering (GCWCOME2012)

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