




Sunday   July 11	17:00	<b>Registration</b> (Hotel Lobby)
	19:00	<b>Welcome Reception</b> (By the swimming pool)
	21:30	<b>World-Cup Final</b> (Live broadcast) 



Monday   July 12	08:00	<b>Registration</b> (Conference Site)
	08:30	<b>Opening Ceremony</b> (Olympus Room), Chair: P. Papanastasiou Welcome address by <b>Prof. P. Papanastasiou</b> (Conference Chair, Dean of Engineering Faculty, University of Cyprus) Welcome address by <b>Emeritus Prof. J.T. Katsikadelis</b> (ex-President of HSTAM) Welcome address by <b>Prof. D.E. Beskos</b> (President of HSTAM) Welcome address by <b>Prof. A. Kounadis</b> (National Academy of Greece) Welcome address by <b>Prof. St. Zenios</b> (Rector of the University of Cyprus) <i>The Scientific Contribution of Prof. I. Vardoulakis</i> by <b>Prof. E. Papamichos</b> (Aristotle University of Thessaloniki) <i>In Memoriam Ioannis Vardoulakis</i> by <b>Emeritus Prof. G. Gudehus</b> (Technical University of Karlsruhe, Germany)
	09:20	<b>Plenary Lecture</b> (Olympus Room), Chair: D. Durban <i>Mechanical properties and progressive crushing of cellular materials</i> <b>Stelios Kyriakides</b>
	10:10	<b>Plenary Lecture</b> (Olympus Room), Chair: A. Zervos <i>Bifurcations in geomaterials: experiments and modelling</i> <b>F. Darve</b>
	11:00	<b>Coffee Break</b>
	11:30	<b>Plenary Lecture</b> (Olympus Room), Chair: D.E. Beskos, E.J. Sapountzakis <i>Some recent advances in Boundary Elements</i> <b>Carlos Brebbia</b>



Monday   July 12		Constitutive Modelling of Geomaterials (Trattoria Room) Chair: D. Caillerie, J. Sulem <i>Vardoulakis mini-symposium</i>	Fluid Mechanics I (Akakiko Room) Chair: A.N. Alexandrou, V.C. Kelessidis	Finite Elements (Alexander Room) Chair: V.K. Koumoussis, S. Natsiavas	Polymer, Composites Forming Processes (Olympus Room) Chair: N. Hadjiconstantinou, K.M. Liechti
	12:15	<i>Psammodynamics: attractors and energetic.</i> [154] <b>G. Gudehus</b> <b>(Invited Lecture)</b>	<i>Local energy change around a thin wall within inclined channels.</i> [087] <b>J. Demetriou</b> , E. Retsinis	<i>Incorporating smooth hysteretic models into the finite element.</i> [061] <b>S.P. Triantafyllou</b> , V.K. Koumoussis	<i>Modeling of electromagnetic forming processes in finitely strained solids.</i> [095] <b>N. Triantafyllidis</b> <b>(Invited Lecture)</b>
	12:30		<i>Modification of rheological properties of bentonite-water dispersions with use of carboxy-methyl-cellulose polymer.</i> [085] M. Poulakakis, V. Chatzistamou, <b>V.C. Kelessidis</b>	<i>A locking free Timoshenko beam element for the nonlinear dynamic analysis of structures.</i> [062] <b>S.P. Triantafyllou</b> , V.K. Koumoussis	
	12:45	<i>Hill's lemma of homogeneity for granular materials and discrete media.</i> [135] <b>D. Caillerie</b>	<i>Numerical investigation of the flow field around a fully submerged oil storage tank. Comparison against experimental and analytic results.</i> [086] <b>D. Mazarakos</b> , V. Kostopoulos	<i>Fatigue analysis of large scale nonlinear finite element models.</i> [051] G. Valsamos, C. Theodosiou, <b>S. Natsiavas</b>	<i>A moiré-deflectometry based bulge/contact test for transparent thin films.</i> [059] Dewei Xu, <b>K.M. Liechti</b> , J. McNalley
	13:00	<i>Bounding surface model for natural anisotropic clays.</i> [136] M. Taiebat, <b>Y.F. Dafalias</b> , A.M. Kaynia	<i>On tensile testing of concentrated suspensions.</i> [084] <b>A.N. Alexandrou</b> , V.M. Entov, A.V. Bazilevsky, A.N. Rozhkov, A. Sharaf	<i>Nonlinear analysis of end – plate steel connections using 3D finite elements with contact and friction.</i> [037] G.D. Drosopoulos, S. Samaras, <b>G.E. Stavroulakis</b> , K.M. Abdalla	<i>Decomposition kinetics of polymer composites at high heating rates. Effect on thermophysical properties.</i> [052] <b>D. Sikoutris</b> , V. Kostopoulos, C. Gerard, S. Bourbigot
	13:15	<b>End of Morning Sessions</b> <b>Lunch</b>			



Monday   July 12	15:00	<p><b>Plenary Lecture</b> (Olympus Room), Chair: H.G. Georgiadis  <i>Creep and hygrothermal effects in concrete structures highlighted by Bridge in Palau and intriguing consequences of nano-porosity</i>  <b>Zdeněk P. Bažant</b></p>			
	15:50	<p><b>Coffee Break</b></p>			
		<p style="text-align: center;"><b>Higher-Order Continua and Microstructure</b> (Trattoria Room) Chair: A.V. Dyskin, C. Dascalu <i>Vardoulakis mini-symposium</i></p>	<p style="text-align: center;"><b>Fluid Mechanics II</b> (Akakiko Room) Chair: J. Demetriou, E. Akylas</p>	<p style="text-align: center;"><b>Boundary Elements</b> (Alexander Room) Chair: G. Gospodinov, D. Polyzos</p>	<p style="text-align: center;"><b>Nano-mechanics</b> (Olympus Room) Chair: A.A. Polycarpou, A. Kontsos</p>
	16:15	<p><i>Analytical study of a class of triangular C1 finite elements. [150]</i>  <b>S-A. Papanicolopoulos</b>, A. Zervos</p>	<p><i>Numerical simulations of shock-induced void collapse in liquid explosives. [016]</i>  <b>L. Michael</b>, N. Nikiforakis</p>	<p><i>The boundary element method applied to prediction of effective elastic properties of 2D composites accounting for crack's damage. [105]</i>  S. Parvanova, <b>G. Gospodinov</b></p>	<p><i>Molecular modeling of electrophoretic biomolecule separation in periodic nanofilter arrays. [091]</i>  <b>N. Hadjiconstantinou</b>  <b>(Invited Lecture)</b></p>
	16:30	<p><i>Reconstruction of Cosserat moduli in particulate materials. [133]</i>  <b>E. Pasternak</b>, A.V. Dyskin</p>	<p><i>Some interesting geometrical elements in inclined jumps over sills. [101]</i>  <b>J. Demetriou</b></p>	<p><i>Dynamic analysis of inhomogeneous anisotropic viscoelastic plane bodies with fractional derivative models. [106]</i>  <b>M.S. Nerantzaki</b>, N.G. Babouskos</p>	



Monday   July 12	16:45	<i>Notch and crack problems in couple-stress elasticity.</i> [013] <b>H.G. Georgiadis</b> , P.A. Gourgiotis	<i>3D mesh update techniques in fluid-structure interaction problems.</i> [088 ] <b>G. Markou</b> , M. Papadrakakis	<i>Plate buckling optimization under conservative and non-conservative loads. An AEM solution.</i> [063] <b>N.G. Babouskos</b> , J.T. Katsikadelis	<i>Nnanoscale mechanics for extremely high density recording.</i> [110] A.I. Vakis, <b>A.A. Polycarpou</b> <b>(Invited Lecture)</b>
	17:00	<i>Homogenization of interlocking masonry structures using higher order continua.</i> [118] <b>I. Stefanou</b> , J. Sulem	<i>A coupled-mode model with application to the prediction of long-waves induced by short-wave groups, in general bathymetry regions.</i> [025] <b>K.A. Belibassakis</b>	<i>Nonlinear flexural-torsional dynamic analysis of beams of arbitrary cross section by BEM.</i> [064] <b>E.J.Sapountzakis</b> , I.C. Dikaros	
	17:15	<i>An engineering gradient BEAM bending theory of materials with microstructure.</i> [115] <b>G. Exadaktylos</b> , M. Stavropoulou	<i>Numerical investigation of inlet positions effects to contaminant removal in horizontal subsurface flow constructed wetlands.</i> [083] <b>K. Liolios</b> , K. Moutsopoulos, V. Tsihrintzis, C. Akratos	<i>Nonlinear resonance of viscoelastic membranes of fractional derivative type.</i> [067] <b>J.T. Katsikadelis</b>	<i>Grain size effect on the fatigue response of nano-crystalline magnesium composites reinforced with max phases.</i> [078] <b>A. Kontsos</b> , K. Hazeli, B. Anasori, T. Loutas, G. Sotiriadis, V. Kostopoulos, M. W. Barsoum
	17:30	<i>A time-dependent damage law in deformable solid: A homogenization approach.</i> [114] <b>C. Dascalu</b> , B. Francois	N/A	<i>BEM solutions of 2D problems in mindlin's form ii strain gradient theory of elasticity.</i> [107] A. A. Papacharalampopoulos, G.F. Karlis, A. Charalambopoulos, <b>D. Polyzos</b>	<i>Continuum simulation of tensile, bending and torsional rigidities of multi-walled carbon nanotubes.</i> [079] F.S. Efthimiou, P. Papanikos, <b>K.I. Tserpes</b> , Sp. Pantelakis
	17:45	<i>Anisotropy at critical state: the role of fabric.</i> [113] X.S. Li, <b>Y.F. Dafalias</b>	N/A	<i>The singular function boundary integral method for 3D Laplacian problems with an edge singularity.</i> [008] <b>M. Elliott</b> , G. Georgiou, C. Xenophontos	<i>Natural convection of nanofluids around a hotstrip.</i> [076] <b>J. Ravnik</b> , L. Skerget



<b>Monday</b>	18:00	<b>End of Afternoon Sessions</b>
	20:30	<b>Banquet</b>



Tuesday   July 13	8.30	<p><b>Plenary Lecture</b> (Olympus Room), Chair: J.T. Katsikadelis  <i>Solution of the FE-BE coupled eigenvalue problem for immersed ship-like structures</i>  <b>Lothar Gaul</b></p>			
	9:20	<p><b>Plenary Lecture</b> (Olympus Room), Chair: G. Gudehus  <i>Particle size effects and non-coaxiality in viscous-plastic materials</i>  <b>Hans Muhlhaus</b></p>			
		<p><b>Wave Propagation</b>            (Trattoria Room)            Chair: C. Vrettos, G.D. Manolis  <i>Vardoulakis mini-symposium</i></p>	<p><b>Continuum Mechanics,            Plasticity theories</b>            (Akakiko Room)            Chair: A.E. Giannakopoulos, P.G.            Charalampides</p>	<p><b>Mechanical Systems</b>            (Alexander Room)            Chair: S.A. Mavrakos, E.S.            Mistakidis</p>	<p><b>Earthquake Engineering I</b>            (Olympus Room)            Chair: A.F. Vakakis. P.C. Tsopelas</p>
	10:15	<p><i>Free surface wave motion in a half-plane with quadratic-type inhomogeneity. [001]</i>            T.V. Rangelov, <b>G.D. Manolis</b></p>	<p><i>Plastic response of porous solids with pressures sensitive matrix. [134]</i>            D. Durban, T. Cohen, Y. Hollander  <b>(Invited Lecture)</b></p>	<p><i>Using analytical sensitivity analysis in box-girder design. [054]</i>            M. Chatzis, S. Triantafyllou, <b>V. Koumousis</b></p>	<p><i>Travelling waves, nonlinear normal modes and transient breathers in granular media with and without disorder. [024]</i>            Y. Starosvetsky, J. Kalkunte Raghunath,  <b>A. F. Vakakis</b></p>
	10:30	<p><i>On the existence of surface waves in an elastic half-space with reverse depth-inhomogeneity. [146]</i>  <b>C. Vrettos</b></p>		<p><i>First- and second-order hydrodynamic effects and wave run-up on a four cylinder configuration at small forward speed. [053]</i>  <b>S.A. Mavrakos</b>, Th. Mazarakos, D. Konispoliatis</p>	<p><i>1D seismic response of layered inhomogeneous soils: Closed-form solution. [017]</i>            Ch. Parashakis, <b>E. Rovithis</b>, G. Mylonakis</p>



Tuesday   July 13	10:45	<i>Effective anti-plane shear modulus of a material with negative stiffness inclusions. [116]</i> <b>A.V. Dyskin</b> , E. Pasternak	<i>Parameters of Bouc-Wen hysteretic model revisited. [003]</i> <b>A.E. Charalampakis</b>	<i>Dynamics of large scale mechanical models with multiple contacts and friction. [055]</i> A. Iakovidis, C. Theodosiou, <b>S. Natsiavas</b>	<i>Steel beam-columns on Winkler foundation: simulation of fundamental mode-coupling. [034]</i> <b>D.S. Sophianopoulos</b> , K.S. Papachristou
	11:00	<i>About the changing of the initial stress state of the granular medium under vibration loading. [132]</i> <b>I.A. Garagash</b>	<i>Degrading Bouc-Wen models compatible with plasticity postulates. [002]</i> A. Kottari, A. Charalampakis, <b>V. Koumouisis</b>	<i>Dependence of friction coefficient on the resolution of fractal interfaces. [056]</i> <b>O.K. Panagouli</b> , E.S. Mistakidis	<i>Analyticity and causality of the three-parameter rheological models. [018]</i> <b>N. Makris</b> , G. Kampas
	11:15	<b>Coffee Break</b>			
		<b>Discrete, Discontinue and Localization models</b> (Trattoria Room) Chair: M. Gutierrez, A. Puzrin <i>Vardoulakis mini-symposium</i>	<b>Dislocation, Gradient Theories</b> (Akakiko Room) Chair: C. Tsakmakis, S. Papargyri-Beskou	<b>Biomechanics</b> (Alexander Room) Chair: N. Aravas, D. Fotiadis	<b>Earthquake Engineering II</b> (Olympus Room) Chair: N. Makris, P. Roussis
	11:45	<i>Compaction bands in high porosity materials: experimental test results and theoretical observations. [140]</i> E. Gerolymatou, G. Dattola, C. G. di Prisco, <b>R. Castellanza</b>	<i>Remarks on strong ellipticity and solvability for continuously dislocated elastic bodies. [099]</i> <b>D. Sfyris</b>	<i>On the constitutive modeling of skeletal muscle and tendon tissues. [072]</i> L.A. Spyrou, <b>N. Aravas</b>	<i>Derivation of Eurocode 8 spectrum-compatible time-histories from recorded seismic accelerograms via harmonic wavelets. [023]</i> <b>A. Giaralis</b> , P.D. Spanos



Tuesday   July 13	12:00	<i>Undrained capacity analyses of sensitive clays using the non-local strain approach.</i> [151] <b>G. Grimstad</b> , H.P. Jostad, L. Andresen	<i>Gradient elasticity of steel cables.</i> [014] <b>A.E. Giannakopoulos</b> , D.S. Sophianopoulos	<i>Fracture initiation within the atheromatous plaque.</i> [069] C. Atkinson, <b>D.A. Eftaxiopoulos</b>	<i>Rocking instability of rigid block columns underground excitation.</i> [021] A.N. Kounadis, <b>D.M. Cotsovos</b>
	12:15	<i>Continuum to discrete transition in non local damage models.</i> [156] <b>D. Grégoire</b> , L. Rojas Solano, G. Pijaudier-Cabot	<i>Airy's stress function approach in plane gradient elasticity.</i> [004] <b>S. Papargyri-Beskou</b> , N. Charalambakis	<i>The influence of the screw-hosting material relative stiffness on the pullout force of bone screws.</i> [068] P.E. Chatzistergos, <b>S.K. Kourkoulis</b>	<i>Effect of base isolation on the rocking vibration of rigid bodies under dynamic excitation.</i> [093] <b>P.C. Roussis</b>
	12:30	<i>Energy-rates balance for granular materials: Discrete characterization.</i> [139] <b>E. Gerolymatou</b> , F. Froiio, C. Nougulier-Lehon	<i>Arbitrary rotated versus isoclinic intermediate configurations in anisotropic and gradient plasticity.</i> [005] C. Broese, D. Sfyris, <b>Ch. Tsakmakis</b>	<i>Computational analysis of the composite head and neck support device (HANS).</i> [073] <b>E.E. Theotokoglou</b> , M.-M. Maniatis	<i>Parametric investigation of the joint-length influence in elastic pounding between oscillators, under horizontal ground motion.</i> [022] C.A. Symmakezis, <b>A.P. Bizos</b>
	12:45	<i>Modeling of axisymmetric fractures with the displacement discontinuity method.</i> [137] <b>E. Gordeliy</b> , E. Detournay, R. Piccinin	<i>Mixed non-local and strain gradient theories: Operation and effectiveness of bi-Helmholtz type operators in dispersive wave equations.</i> [010] D. A. Fafalis, <b>S. P. Filopoulos</b> , G. J. Tsamasphyros	<i>Rayleigh waves dispersion in media with microstructure: A BEM study in bone paradigm.</i> [108] A.A. Papacharalampopoulos, M.G. Vavva, V.C. Protopappas, D.I. Fotiadis, <b>D. Polyzos</b>	<i>Modal analysis of isolated bridges with transverse restrains at the end abutments.</i> [019] <b>N. Makris</b> , G. Kampas, D. Angelopoulou
	13:00	<i>Discrete element modeling of strain localization in the direct shear test of granular soils.</i> [141] <b>M. Gutierrez</b> , J. Wang	<i>Nanotubes: a confrontation of nonlocal and gradient elasticity.</i> [077] <b>C. Koutsoumaris</b> , G.J. Tsamasphyros, S.P. Filopoulos	<i>Blood flow in coronary arteries with deformable walls.</i> [070] P.K. Siogkas, A.I. Sakellarios, K.A. Stefanou, T.P. Exarchos, V.D. Tsakanikas, L.K. Michalis, K.K. Naka, M.I. Papafaklis, C.V. Bourantas, <b>D.I. Fotiadis</b>	<i>"Complete Similarities" In the Response of Seismic Isolated Structures.</i> [026] <b>N. Makris</b> , M.F. Vassiliou
	13:15	<b>End of Morning Sessions Lunch</b>			



Tuesday   July 13	15:00	<p><b>Plenary Lecture</b> (Olympus Room), Chair: Y. Dafalias  <i>Physical and analytical model of shear banding in geomaterials under plane strain conditions</i>  <b>Theodoros Triantafyllidis</b></p>			
	15:50	<p><b>Coffee Break</b></p>			
		<p><b>Mechanics of Multiphase Geomaterials</b>            (Trattoria Room)            Chair: M. Stavropoulou, C.G. di Prisco  <i>Vardoulakis mini-symposium</i></p>	<p><b>Metal, Composites and other structures</b>            (Akakiko Room)            Chair: G.Z. Voyiadjis, A.P. Christoforou</p>	<p><b>Strength of Structures</b>            (Alexander Room)            Chair: S.A. Karamanos, Z. Agioutantis</p>	<p><b>Earthquake Engineering III</b>            (Olympus Room)            Chair: N. Bazeos, D. Cotsovos</p>
	16:15	<p><i>A redefinition of the second order work for unsaturated soils. [111]</i>  <b>G. Buscarnera</b>, C. di Prisco</p>	<p><i>High rate and frictional effects in wear of metals using strain gradient plasticity. [009]</i>  <b>G.Z. Voyiadjis</b>, B. Deliktas, A.Lodygowski  <b>(Invited Lecture)</b></p>	<p><i>Limit load evaluation of three dimensional framed structures. [035]</i>  <b>K.V. Spiliopoulos</b>, N. Dais</p>	<p><i>Seismic response of plane concentric V-braced multi-storey steel frames: Estimation Of Inelastic Deformation Demands. [027]</i>            E. Angelopoulou, <b>N. Bazeos</b></p>
	16:30	<p><i>Inclinodeformometer: backcalculation of earth pressure changes in creeping landslides. [128]</i>  <b>M.V. Schwager</b>, A.M. Schmid, A.M. Puzrin</p>		<p><i>Buckling of double-wall elastic tubes under bending. [036]</i>            D. Vasilikis, <b>S.A. Karamanos</b></p>	<p><i>A new damage index for steel structures under seismic motion exhibiting strength and stiffness degradation. [029]</i>            G.S. Kamaris, <b>G.D. Hatzigeorgiou</b>, D.E. Beskos</p>



Tuesday   July 13	16:45	<i>On the role of thermal mechanisms during dynamic slip of faults.</i> [122] <b>J. Sulem</b>	<i>Modeling the mechanical response of fibrous monolith composites.</i> [144] <b>P.G. Charalambides</b> , L. Lu <b>(Invited Lecture)</b>	<i>An efficient analytical technique for the determination of the critical axial loads of continuous beams with unequal spans in the presence of unilateral constraints and arbitrary initial geometric imperfections.</i> [040] K.A. Tzaros and <b>E.S. Mistakidis</b>	<i>The role of redundancy and overstrength in earthquake-resistant design.</i> [031] <b>M.M. Manola</b> , V.K. Koumouisis
	17:00	<i>A thermomechanical model for catastrophic landslides.</i> [125] <b>A. Zervos</b> , F. Cecinato, M. Veveakis		<i>Accounting for cable slackening and material non-linearity in the analysis of structures with cables.</i> [039] <b>P. Christou</b> , A. Michael, Ch. Anastasiou	<i>Dynamic analysis of structures with multi-level isolation interfaces under conditions of bearing uplift.</i> [104] <b>P.C. Tsopelas</b> , P.C. Roussis
	17:15	<i>Mathematical modeling of landslides: triggering, evolution and deposition.</i> [131] <b>N. Gerolymos</b> , G. Gazetas, I. Vardoulakis	<i>On the blast response of sandwich aerospace composites.</i> [058] <b>T. Kotzakolios</b> , D.E. Vlachos, C. Derdas, V. Kostopoulos	<i>Progressive damage modeling: a scale-independent strength prediction method.</i> [109] <b>K.I. Tserpes</b> , Th. Kermanidis	<i>Development of a simplified mechanical model to estimate the seismic vulnerability of cultural heritage masonry buildings.</i> [030] <b>D. Vamvatsikos</b> , S.J. Pantazopoulou
	17:30	<i>From creep to thermal instabilities and chemical reaction triggering during shearing of frictional faults.</i> [127] <b>S. Alevizos</b> , E. Veveakis	<i>Visco-elastoplastic impact in composite structures.</i> [057] <b>A.P. Christoforou</b> , A.S. Yigit, M.A. Mageed	<i>Thermo-mechanical simulation of monolithic concrete lining of an underground opening.</i> [049] <b>Z. Agioutantis</b> , P. Viopoulos, N. Gouveris, Ch. Steiakakis,	<i>Reinforced concrete frames under multiple earthquakes.</i> [046] G.D. Hatzigeorgiou, <b>A.A. Loliolis</b>
	17:45	<i>Subsidence diffusion-convection in geostructures: 3-D model applications.</i> [145] <b>E. Vairaktaris</b> , M. Stavropoulou, I. Vardoulakis	<i>An assessment of the compressive strength of adobe brick assemblages.</i> [033] <b>R. Illampas</b> , D.C. Charmpis, I. Ioannou	<i>Structural behavior of a Franco-Byzantine basilica charge after explosion to fire</i> [163] K. A. Kyriakides, <b>L. Petrou</b> , G. Hadjisophocleous, I. Ioannou	<i>Wide RC beams under low and high loading rates.</i> [047] Ali Abbas, <b>D.M. Cotsovos</b> , A. Pullen



<b>Tuesday</b>	18:00	<b>End of Afternoon Sessions</b>
	20:00	<b>Village Dinner</b>



Wednesday   July 14	8.30	<p><b>Plenary Lecture</b> (Olympus Room), Chair: A. Kounadis  <i>Role of mechanics in design of cable stayed bridges</i>  <b>Nikola Hajdin</b></p>			
	9:20	<p><b>Plenary Lecture</b> (Olympus Room), Chair: E. Papamichos  <i>Modelling Challenges in Directional Drilling</i>  <b>Emmanuel Detournay</b></p>			
		<p><b>Geotechnical and Geomaterials Applications</b>            (Trattoria Room)            Chair: D. Loukidis, C. Detournay  <i>Vardoulakis mini-symposium</i></p>	<p><b>Fluid Mechanics III</b>            (Akakiko Room)            Chair: L. Michael, M. Neophytou</p>	<p><b>Monitoring and Control of Structures</b>            (Alexander Room)            Chair: C. Providakis, G.E. Stavroulakis</p>	<p><b>Concrete Structures I</b>            (Olympus Room)            Chair: D. Vamvatsikos, A. Liolios</p>
	10:15	<p><i>Equivalent frictional angle in bearing capacity calculations for footings on granular soils. [149]</i>  <b>D. Loukidis</b>, R. Salgado</p>	<p><i>An inter-comparison of three urban computational wind models using Oklahoma City joint urban 2003 wind field measurements. [081]</i>  <b>M. Neophytou</b>, M. Brown, A. Gowardan</p>	<p><i>Advanced signal processing and pattern recognition techniques for health monitoring of aerospace structures. [074]</i>            A. Panopoulou, D. Roulias, <b>Th. Loutas</b>, N. Chrysochoidis, V. Kostopoulos</p>	<p><i>Concrete sections confined by FRP jackets: a soil mechanics approach. [043]</i>            D.A. Moran, <b>C.P. Pantelides (Invited Lecture)</b></p>
	10:30	<p><i>Rock nailing in the surface instability test. [153]</i>  <b>E. Papamichos</b>, I. Vardoulakis</p>	<p><i>Flow and exchange processes in homogeneous urban street-canyon geometries: an experimental study using Particle Image Velocimetry. [082]</i>            C.N. Markides, P. Fokaides, <b>M. Neophytou</b></p>	<p><i>Modelling and simulation of controlled smart structures. [075]</i>  <b>G.A. Foutsitzi</b>, G.E. Stavroulakis, E.P. Hadjigeorgiou</p>	



Wednesday   July 14	10:45	<i>Compatibility of natural building stones using composite specimens: A combined numerical and experimental study.</i> [129] <b>S.K. Kourkoulis</b> , E. Pasiou	<i>Anomalous Heat Transfer Modes of Nanofluids: a Statistical Analysis Approach Review</i> [162] <b>A. Sergis</b> , Y. Hardalupas	<i>Damage detection in concrete components using PZT actuators/sensors and extreme value statistics.</i> [102] <b>C. Providakis</b> , E. Liarakos and M. Voutetaki	<i>A Comparative study on modelling approaches for fibre-reinforced concrete.</i> [048] Ali Abbas, <b>D.M. Cotsovos</b> , S. Syed Mohsin
	11:00	<i>An experimental and theoretical investigation of the contribution of the filling materials used in the restoration of structural members of monuments.</i> [130] <b>I.-O. Georgopoulos</b> , I. Stefanou	<i>Modeling the structure functions in linearly forced isotropic turbulence</i> [165] E. Gravanis, <b>E. Akylas</b> , M.M. Fyrrilas, D. Rousson and S.C. Kassinos	<i>Analysis of structural effects during manufacturing of aircraft components.</i> [092] <b>L. Papadakis</b> , G. Branner	<i>Experimental and analytical investigation of masonry beams retrofitted with ECC under out-of-plane bending.</i> [032] <b>M.A. Kyriakides</b> , M.A.N. Hendriks, S.L. Billington
	11:15	<b>Coffee Break</b>			
		<b>Petroleum Geomechanics</b> (Trattoria Room) Chair: R.G. Jeffrey, D.I. Garagash <i>Vardoulakis mini-symposium</i>	<b>Available for meetings</b> (Akakiko Room)	<b>Rigid Body and Structural Optimization</b> (Alexander Room) Chair: D.C. Charnpis, D. Eftaxiopoulos	<b>Concrete Structures II</b> (Olympus Room) Chair: C. Pantelides, S.K. Kourkoulis
	11:45	<i>Impact of rock strength on sand production – numerical and semi-analytical investigations.</i> [155] <b>C. Detournay</b>	N/A	<i>The five-body model of Ollöngren with a central Manev-type potential.</i> [007] <b>T.J. Kalvouridis</b> and D. Fakis	<i>Chloride migration in concrete covers exposed to fluctuating environmental conditions.</i> [161] <b>I. Balafas</b>



Wednesday   July 14	12:00	<i>Poroelastic model for deformation induced by pressure transient from hydraulic fracturing.</i> [124] <b>Z. Chen</b> and R.G. Jeffrey	N/A	<i>Evaluation and optimization of structural robustness.</i> [160] <b>D.C. Charnpis</b>	<i>Generating embedded reinforcement in hexahedral elements for concrete simulation.</i> [041] <b>G. Markou</b> , M. Papadrakakis
	12:15	<i>The geometry of a hydraulic fracture growing along a wellbore annulus.</i> [126] A. Bunger, <b>J. Kear</b> , B. Lecampion, D. Quesada	N/A	<i>Examination of the performance of PSO algorithm with time-varying population.</i> [066] <b>C.K. Dimou</b> , A.E. Charalampakis	<i>Fiber beam element formulations for the inelastic analysis of steel and RC structures under combined bending-shear and torsion.</i> [044] <b>M. Fragiadakis</b> , A. Papachristidis, M. Papadrakakis
	12:30	<i>Equilibrium of a pressurized plastic fluid in a tensile crack.</i> [152] E. Sarvaramini and <b>D. I. Garagash</b>	N/A	<i>Simulation of non-Gaussian stochastic processes and fields: applications to structural engineering problems.</i> [100] <b>G. Stefanou</b> , M. Papadrakakis	<i>Determination of the size-independent specific fracture energy of UHPFRCCs from three-point bend tests.</i> [050] <b>D. Nicolaidis</b> , A. Kanellopoulos
	12:45	<i>The influence of in-situ stress and pore pressure fields in hydraulic fracturing under poroelastoplastic conditions.</i> [089] <b>E. Sarris</b> , P. Papanastasiou	N/A	N/A	<i>Detailed three-dimensional modeling of reinforced concrete structures.</i> [042] <b>G. Markou</b> , M. Papadrakakis
	13:00	<b>Lunch</b>			
13:30	<b>Excursion to Ancient Kourion and Paphos</b>				
20:00	<b>End of Congress</b>				