

ICMCSF Technical Program

Sunday, 17 May 2015

<i>Registration (Main Lobby of Polytech'Lille)</i>	14:00
<i>City Tour of Lille</i>	15:00/16:00
<i>Welcome Party at Lille Center</i>	18:30

Monday, 18 May 2015

<i>Opening Ceremony</i> Room: Plenary Hall Migeon	9:00
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Session	9:30	10:15
<i>Plenary Lecture</i> Chairs: Gilmar Mompean, France Moussa Naït-Abdelaziz, France Room: Plenary Hall Migeon	<i>Modeling elasto-viscoplastic time-dependent materials: State-of-the art and future challenges</i> Roney Leon Thompson, Brazil	<i>Concurrent multiscale modeling of amorphous materials</i> Vincent B.C. Tan, Singapore

11:00 - 11:30 Poster Session + Coffee Break, Main Lobby
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Session	11:30	11:50
<i>Time-dependent Mechanics</i> Chair: Roney Leon Thompson, Brazil Room: Plenary Hall Migeon	<i>Time-delayed elastic response in colloidal gels</i> <u> Davide C.E. Calzolari</u> , Irmgard Bischofberger, Veronique Trappe, Switzerland	<i>Advanced simulation of PU foam mould filling</i> <u>Jerome Claracq</u> , Guillaume François, Laurence Ville, Luisa Silva, Netherlands
<i>Nano and Micro-scale Experiments</i> Chair: Amine Benzerga, USA Room: Plenary Hall Appert	<i>Structure and texture complexities in the tribolayer of a dual phase AL-SI composite under contact sliding</i> <u>Y. Cao</u> , L.C. Zhang, Y. Zhang, Australia	<i>Processing and mechanical properties relationships in hydrogel nanofilaments for biological applications</i> P. Nakielski, S. Pawlowska, <u>F. Pierini</u> , P. Hejduk, K. Zembrzycki, T.A. Kowalewski, Poland
<i>Multi-scale Modeling</i> Chair: Laszlo S. Toth, France Room: Plenary Hall Lebon	<i>Modeling the rate and temperature dependent behavior and texture evolution of the Mg AZ31B alloy TRC sheets by considering slip, twinning and grain boundary sliding</i> <u>Georges Ayoub</u> , A.K. Rodrigez, J.P. Young, G. Kridli, M. Shehadeh, H. Zbib, Qatar	<i>Elastoplastic phase-field modeling of hydride precipitate evolution in Zr</i> <u>Guy Oum</u> , Ludovic Thuinet, Alexandre Legris, France
<i>Damage, Fracture and Fatigue</i> Chair: Moussa Naït-Abdelaziz, France Room: Plenary Hall Chappe	<i>Numerical modelling of cavitation erosion in UHMWPE</i> <u>Brunda Kattekola</u> , Tiana Deplancke, Marc Fivel, Jean-Pierre Franc, France	<i>3D modeling and analysis of the damage and strength of inter-fibre bonds in paper</i> <u>M. Targhagh</u> , A.B. Phillion, D.M. Martinez, Canada

Lunch: 12:10 -14:00, Grand Stade

Session	14:00	14:45
<i>Plenary Lecture</i> Chairs: Issam Doghri, Belgium Ali Zaoui, France Room: Plenary Hall Migeon	<i>Abnormal thermal expansion and correlated magnetic, electronic transport in antiperovskite Mn₃XN compounds</i> <u>Cong Wang</u> , Ying Sun, Sihao Deng, Kewen Shi, Imran Malik, Lei Wang, Qinzhen Huang, China	<i>Micromechanics of random heterogeneous media. New background opportunities, and prospects</i> Valeriy Buryachenko, USA

Session	15:30	15:50	16:10
<p><i>Time-dependent Mechanics</i> Chair: Edson José Soares, Brazil Room: Plenary Hall Migeon</p>	<p><i>Parameteres identification of the Magic tyre formula using particle swarm optimization</i> H. Metered, A. El-Sawaf, T. Vampola, Z. Šika , Czech Republic</p>	<p><i>Non-newtonian/newtonian liquid-liquid flows in microchannels</i> Evangelia-Panagiota Roumpea, Maxime Chinaud, Panagiota Angeli, UK</p>	<p><i>Research on the performance of high head tubular turbine</i> Song Wenwu, Jiang Qifeng, Zhao Fei, Wang Huiyan, China</p>
<p><i>Coupled Mechanics</i> Chair: Fumio Narita, Japan Room: Plenary Hall Appert</p>	<p><i>Influence of relative size of abrasive with CIP in MR fluid based surface finishing process</i> A. Sadiq, M.S. Shunmugam, India</p>	<p><i>Modeling chemo-mechanical couplings in silicon electrodes for Li-ion batteries</i> Laurence Brassart, Zhigang Suo, Belgium</p>	<p><i>Analysis and active control of smart structures using numerical and piezoelectric elements</i> B. Necib, A. Lebied, M. Sahli, Algeria</p>
<p><i>Multi-scale Modeling</i> Chair: Vincent B.C. Tan, Singapore Room: Plenary Hall Lebon</p>	<p><i>From atomic model to continuum theory for thin films</i> Bokhodir Kholboev, Sweden</p>	<p><i>A simplified mechanical model for the optimization of the fabrication process of high-temperature superconductors</i> N. Kosheleva, I. Shahrour, Russia</p>	<p><i>Diffusion properties of Fe-C systems studied by using kinetic activation-relation technique</i> Oscar A. Restrepo, Normand Mousseau, Fadwa El-Mellouhi, Othmane Bouhali, Charlotte S. Becquart, Canada</p>
<p><i>Damage, Fracture and Fatigue</i> Chair: Huiji Shi, China Room: Plenary Hall Chappe</p>	<p><i>Fatigue-damage-resistant nanostructured Cu thin film for flexible devices</i> In-Suk Choi, Young-Chang Joo, Korea</p>	<p><i>Microscopic precursors of fracture in amorphous solids</i> Med Yassine Nagazi, Luca Cipelletti, Giovanni Brambilla, France</p>	<p><i>Design methodology with imposed lifespan of the industrial machinery and equipment</i> C.S. Simionescu, F. Nedelcuț, Romania</p>

16:30 - 17:00
Poster Session + Coffee Break, Main Lobby

Session	17:00	17:45
<i>Plenary Lecture</i> Chairs: Ben Jar, Canada Roney Leon Thompson, Brazil Room: Plenary Hall Migeon	<i>On viscoplasticity and fracture of an epoxy resin</i> Amine Benzerga, USA	<i>Numerical simulation of three-dimensional non-newtonian free surface flows</i> Murilo F. Tome, Brazil

Tuesday, 19 May 2015

Session	8:30	9:15
<i>Plenary Lecture</i> Chairs: Vincent B.C. Tan, Singapore Fumio Narita, Japan Room: Plenary Hall Migeon	<i>Magneto-active polymers: Challenges in the fabrication, testing, modelling and simulation</i> <u>Jean-Paul Pelteret</u> , Paul Steinmann, Germany	<i>Multi-scale modelling of glassy polymer fracture from low to high rates</i> Rafael Estevez, France

Session	10:00	10:20
<i>Time-dependent Mechanics</i> Chair: Enrico Calzavarini, France Room: Plenary Hall Migeon	<i>A numerical/experimental investigation on oil mist behaviour used for minimum quantity lubrication (MQL) on milling process: Effect of different rotation velocities of a milling tool</i> <u>Sana Werda</u> , Arnaud Duchosal, Guénaél Le Quilliec, Antoine Morandea, René Leroy, France	<i>Numerical simulation of turbulent viscoelastic drag reduction in plane Couette flow considering the effects of polymer degradation</i> <u>Anselmo S. Pereira</u> , Gilmar Mompean, Laurent Thais, Edson J. Soares, France
<i>Coupled Mechanics</i> Chair: Jean-Paul Pelteret, Germany Room: Plenary Hall Appert	<i>Post-buckling response of asymmetric frame made of axially FGM</i> <u>Trinh Thanh Huong</u> , Nguyen Dinh Kien, Buntara Sthenly Gan, Japan	<i>The effect of dielectric in an asymptotically correct actuator model</i> <u>Sitikantha Roy</u> , Shreya Banerjee, India
<i>Mechanics and Uncertainty</i> Chairs: Abdelkhalak El Hami, France Bouchaïb Radi, Morocco Room: Plenary Hall Lebon	<i>Probabilistic analysis of wind turbine blade</i> Ismail Sossey-Alaoui, <u>Bouchaïb Radi</u> , Abdelkhalak El Hami, Morocco	<i>RBDO analysis of mechatronic system taking the contact into account</i> <u>Bouchaïb Radi</u> , Abdelkhalak El Hami, Morocco
<i>Damage, Fracture and Fatigue</i> Chair: Lucien Lairinandrasana, France Room: Plenary Hall Chappe	<i>The use of spectral method for fatigue life assessment for non-Gaussian random loads with non zero mean stress</i> Adam Nieslony, Michał Böhm, <u>Tadeusz Lagoda</u> , Poland	<i>Investigation and validation of a new optimized yield stress/elasticity modulus formulation for bone fracture identification</i> <u>G. Kharmanda</u> , A. Shokry, Sweden

10:40 - 11:10 Poster Session + Coffee Break, Main Lobby
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Session	11:10	11:30	11:50
<p><i>Time-dependent Mechanics</i> Chair: Ben Jar, Canada Room: Plenary Hall Migeon</p>	<p><i>Stress relaxation and stress recovery in a shape memory polymer</i> <u>John Sweeney</u>, Mark Bonner, Ian M. Ward, UK</p>	<p><i>Friction losses for power-law and viscoplastic materials in abrupt contractions and expansions</i> Edson José Soares, Sérgio Luiz Dalvi Kafuri, <u>Renato do Nascimento Siqueira</u>, Brazil</p>	<p><i>Service ageing of polyester reinforced PVC coated VALMEX fabric</i> <u>K. Żerdzicki</u>, K. Woźnica, P. Kłosowski, Poland</p>
<p><i>Time-dependent Mechanics</i> Chair: Stefano Berti, France Room: Plenary Hall Appert</p>	<p><i>Simulation of turbulent channel flow using a viscoelastic fluid model based on the square-root transformation for the conformation tensor</i> <u>Ramon S. Martins</u>, Laurent Thais, Gilmar Mompean, France</p>	<p><i>Fifth-order theory for bichromatic and bi-directional ocean surface waves over uniform current and depth</i> <u>H. Huang</u>, G.L. Liu, China</p>	<p><i>Benchmark numerical and experimental solutions of turbulent natural convection in open square cavity</i> <u>L. Koufi</u>, Y. Cherif, Z. Younsi, H. Naji, France</p>
<p><i>Mechanics and Uncertainty</i> Chairs: Abdelkhalak El Hami, France Bouchaïb Radi, Morocco Room: Plenary Hall Lebon</p>	<p><i>Reliability analysis of some fluid/structure interaction problems</i> <u>Abdelkhalak El Hami</u>, Bouchaïb Radi, Morocco</p>	<p><i>3D remeshing procedure for numerical simulation of complex foam structure deformation</i> Shijie Zhu, <u>Abel Cherouat</u>, Houman Borouchaki, France</p>	<p><i>Random vibration of a printed control board</i> <u>M. Al Soufi</u>, Y. Aoues, Abdelkhalak El Hami, Ph. Pougnet, France</p>
<p><i>Multi-scale Modeling</i> Chair: Valeriy Buryachenko, USA Room: Plenary Hall Chappe</p>	<p><i>A multiscale homogenization scheme applied for predicting the effective elastic properties of 3D interlock composites</i> <u>Y. Liu</u>, D. Vasiukov, S. Panier, France</p>	<p><i>Effect of an ellipsoidal void's volume fraction, shape, orientation, and location on the composite's elastic modulus</i> <u>Ilige S. Hage</u>, Ramsey F. Hamade, Lebanon</p>	<p><i>Random composites without deterministic representative volume element</i> <u>M.S. Sukiman</u>, A. El Moumen, T. Kanit, F. Nguyen, A. Imad, F. Erchiqui, France</p>

Lunch: 12:10 -14:00, Grand Stade

Session	14:00	14:45
<i>Plenary Lecture</i> Chairs: Amine Benzerga, USA Murilo F. Tome, Brazil Room: Plenary Hall Migeon	<i>Polymer degradation in drag reducing flows</i> Edson José Soares, Brazil	<i>Void nucleation and anisotropic growth on semi-crystalline polymers by X-ray tomography: Application to constitutive modeling</i> Lucien Laiarinandrasana, France

Session	15:30	15:50	16:10
<i>Time-dependent Mechanics</i> Chair: Murilo F. Tome, Brazil Room: Plenary Hall Migeon	<i>An application of direct numerical simulation technique to flow measurement by ultrasonic meters</i> <u>Rogério Ramos</u> , Marcelo Almeida Azeredo, Gilmar Mompean, Brazil	<i>Study on a seismic energy dissipation hydraulic device</i> <u>F. Nedelcuț</u> , C.S. Simionescu, F.D. Șcheaua, Romania	<i>Effect of viscoelasticity after kolmogorov scale in turbulence</i> <u>Minh Quan Nguyen</u> , Alexandre Delache, Serge Simoëns, Mahmoud El Hajem, France
<i>Multi-scale Modeling</i> Chair: Issam Doghri, Belgium Room: Plenary Hall Appert	<i>On the modelling of carbon nano tubes as generalized continua</i> H. Amin Pour, <u>N. Rizzi</u> , Italy	<i>Nano-rheological behaviour of complex fluids under quiescent and shearing conditions</i> <u>Dandan Cui</u> , Liangchi Zhang, Australia	<i>The problem of nonlinear flutter of viscoelastic anisotropic laminated fiber-reinforced plate</i> <u>B.Kh. Eshmatov</u> , D.A. Khodzhaev, Sh.P. Bobonazarov, Uzbekistan
<i>Mechanics and Uncertainty</i> Chairs: Abdelkhalak El Hami, France Bouchaïb Radi, Morocco Room: Plenary Hall Lebon	<i>Pore-scale modeling and thermal simulation on a melting of phase change materials in high mechanical property open-cell metal foams</i> <u>Chuan Zhang</u> , Feng Zhu, Housseem Badreddine, Xiaolu Gong, France	<i>Reliability analysis of the aircraft's wing using finite element/finite volume approaches</i> <u>R. El Maani</u> , Bouchaïb Radi, Abdelkhalak El Hami, Morocco	<i>Fatigue life prevision of parabolic leaf spring based on probabilistic approach</i> <u>Akram Atig</u> , Rabī Ben Sghaier, Raouf Fathallah, Tunisia
<i>Damage, Fracture and Fatigue</i> Chair: Rafael Estevez, France Room: Plenary Hall Chappe	<i>Effect of thermal oxidation on the mechanical properties of glassy carbon</i> <u>Weidong Liu</u> , Mei Liu, Liangchi Zhang, Australia	<i>Improved tendon model considering structural nonlinearity</i> <u>Hyo-Gyoung Kwak</u> , Yangsu Kwon, Korea	<i>Numerical estimation of impact load and prediction of material loss in cavitation erosion</i> <u>Samir Chandra Roy</u> , Marc Fivel, Jean-Pierre Franc, Christian Pellone, Nicolas Ranc, France

16:30 - 17:00
Poster Session + Coffee Break, Main Lobby

Session	17:00	17:45
<i>Plenary Lecture</i> Chairs: Lucien Laiarinandrasana, France Laszlo S. Toth, France Room: Plenary Hall Migeon	<i>The influence of temperature and orientation on low cycle fatigue for anisotropic Nickel based single crystal superalloy</i> Huiji Shi, China	<i>Deformation-induced change in long-term mechanical properties of polyethylene</i> Ben Jar, Canada

Wednesday, 20 May 2015

Session	8:30	9:15
<i>Plenary Lecture</i> Chairs: Valeriy Buryachenko, USA Liangchi Zhang, Australia Room: Plenary Hall Migeon	<i>Phase transition behavior of nanocrystalline shape memory alloys: Roles of material internal length scales</i> Qingping Sun, China	<i>The transition in the behavior of polycrystals between coarse grained to ultra-fine-grained structures due to severe plastic deformation</i> Laszlo S. Toth, France

Session	10:00
<i>Plenary Lecture</i> Chair: Qingping Sun, China Room: Plenary Hall Migeon	<i>Potassium Dihydrogen Phosphate (KDP) crystals: Their properties and mechanics</i> Liangchi Zhang, Australia

10:45 - 11:15 Poster Session + Coffee Break, Main Lobby
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Session	11:15
<i>Plenary Lecture</i> Chair: Mikhail Itskov, Germany Room: Plenary Hall Migeon	<i>Contribution to constitutive modeling of homogeneous and composite polymers based on macroscopic or multiscale methods</i> Issam Doghri, Belgium

Lunch: 12:00 -14:00, Grand Stade

Session	14:00	14:45
<i>Plenary Lecture</i> Chairs: Rafael Estevez, France Jean-Paul Pelteret, Germany Room: Plenary Hall Migeon	<i>Effect of magnetic fields on the fatigue behavior of cracked magnetostrictive materials in three-point bending</i> Yasuhide Shindo, <u>Fumio Narita</u> , Kotaro Mori, Japan	<i>Multiscale mechanics of elastomers based on polymer chains length statistics</i> Mikhail Itskov, Germany

15:30 - 16:30
Poster Session + Coffee Break, Main Lobby

Beginning 19:00
Conference Dinner

Thursday, 21 May 2015

Brussels

Departure 9:00 / Return 20:00

Friday, 22 May 2015

Paris

Departure 7:30 / Return 23:00

ICMCSF Poster Session

<p><i>Study on the measurement of the delamination in the composite materials using the laser ultrasonic measurement system</i> <u>In Young Choi</u>, Young June Kang, Kyung Min Hong, Sung Jong Kim, Won Jea Ryu, Korea</p>	<p><i>A transient gradient damage model based on the homogenization of inter-granular failure</i> <u>Leong Hien Poh</u>, Gang Sun, Singapore</p>	<p><i>The hysteresis performance of the metal rubber vibration isolating bearing</i> <u>Yanguo Zhou</u>, Jian Jiang, Yinjun Jiang, Ke Zhang, China</p>	<p><i>Notch effect on J in a laminated plate subjected to tensile load</i> <u>M. Sahnoun</u>, D. Ouinas, Algeria</p>
<p><i>Asymptotic development of shear stress in a thin layer</i> <u>I. Titeux</u>, A. Rigolot, France</p>	<p><i>Residual shear strength of repeatedly impacted composite plates</i> <u>K. Azouaoui</u>, S. Mouhoubi, A. Mesbah, S. Boutaleb, Algeria</p>	<p><i>Experimental and numerical study of the effects of inter-particle contact friction on the bulk moduli</i> <u>K. Taghizadeh</u>, N. Kumar, V. Magnanimo, S. Luding, Netherlands</p>	<p><i>Micromechanics of random structure thermoperistatic composites</i> <u>Valeriy Buryachenko</u>, USA</p>
<p><i>Progressive damage simulation of open-hole composite laminates under compression</i> <u>A. Mokhtari</u>, N. Tala Ighil, Algeria</p>	<p><i>Optimization of stress-strain curves of WC-Co two-phase materials by artificial neural networks method</i> <u>R. Taouche</u>, N. Rouag, Algeria</p>	<p><i>A fully-coupled thermo-mechanical constitutive model to predict the heat build-up of filled rubbers during fatigue</i> <u>C. Ovalle Rodas</u>, F. Zaïri, M. Naït-Abdelaziz, P. Charrier, France</p>	<p><i>Investigation of material nonlinearity effects on human head modelling for crash injury: An explicit dynamic simulation</i> <u>Mahsa Sadeghian</u>, Masoud Asgari, Iran</p>
<p><i>Progressive damage modeling in composite bolted joints under fatigue loading</i> <u>S. Hassanifard</u>, M. Feyzi, Iran</p>	<p><i>Large-strain constitutive modeling and simulation of semi-crystalline polymers</i> <u>H. Abdul Hameed</u>, C. Ovalle Rodas, F. Zaïri, T. Messenger, M. Naït-Abdelaziz, France</p>	<p><i>Modeling the behavior of reinforced concrete walls under fire</i> N. Otmani-Benmehidi, Algeria</p>	<p><i>The application of gap element and spring element to nonlinear mechanical analysis of fracturing string</i> <u>Zhi-Miao Li</u>, Min Luo, Ju-Bao Liu, China</p>
<p><i>Mathematical modeling of ignition of forest combustible materials</i> Valeriy A. Perminov, Russia</p>	<p><i>Distribution of residual stresses in welded rails</i> <u>Oussama Bouazaoui</u>, Abdelkrim Chouaf, Morocco</p>	<p><i>Modeling of the multi-cracking in the anodized aluminum alloy 2017A</i> A. Mansour, I. Memmouche, M.A. Belouchrani, Algeria</p>	<p><i>Comparison of various refined nonlocal beam theories for bending, vibration and buckling analysis of nanobeams</i> Hamza Madjid Berrabah, Algeria</p>

<p>Investigating the fatigue behavior of friction stir spot welded joints reinforced with carbon nanotubes <u>S. Hassanifard</u>, A. Salimi, Iran</p>	<p>Modeling of the friable material surface state in wear <u>M. Bounazef</u>, S. Bendaoudi, A. Djeflal, Algeria</p>	<p>Accurate analysis of adhesively bonded piezoelectric actuators using full layerwise theory Seyed Abdolmajid Yousefsani, <u>Masoud Tahani</u>, Iran</p>	<p>Continuous health monitoring of stationary and moving structures based on E/M impedance method, using deposition of piezoelectric thick film transducers Hamidreza Hoshyarmanesh, Ali Abbasi, Mojtaba Ghodsi, Iran</p>
<p>Advances in the deep-hole drilling technique for the residual stress measurement in composite laminates <u>C. Garza</u>, A. Shterenlikht, D.J. Smitn, M.J. Pavier, UK</p>	<p>Application of order analysis for the diagnosis of gear fault under variable speed conditions <u>Mohamed El Morsy</u>, Gabriela Achtenová, Czech Republic</p>	<p>Analysis of HDPE behavior during 2-ECAE process using 90° and 120° dies A. Mitsak, <u>B. Aour</u>, Algeria</p>	<p>Electrochemical characterization of gold sensor functionalized with mercaptoxyrenedivinylbenzene layer for mercury detection <u>Karima Morakchi</u>, Abdallah Hamel, Amel Benjama, Rochedi Kherrat, Algeria</p>
<p>Four-axis machining of an impeller with non-twisted blades of compressor <u>Madani Malim</u>, Mekki Assas, Algeria</p>	<p>Buckling laminated composite plate with elliptical notch <u>Djamel Ouinas</u>, M. Sahnoun, Algeria</p>	<p>Non linear stability analysis of short journal bearing lubricated with non-newtonian fluids <u>O. Meramria</u>, A. Belhamra, A.R. Bouziane, Algeria</p>	<p>Fretting-fatigue simulation of polycrystalline aluminium alloy using crystal plasticity finite element method <u>Hichem Ziraoui</u>, Toufik Kanit, Abdelwaheb Amrouche, Moussa Naït-Abdelaziz, France</p>
<p>Stretching FEM 2D crack propagation M. Bentahar, <u>H. Benzaama</u>, A. Benzaama, Algeria</p>	<p>Computational homogenization study of the matrix yield strain effects on the overall yield surface of porous media <u>Younis-Khalid Khdir</u>, Toufik Kanit, Fahmi Zaïri, Moussa Naït-Abdelaziz, Iraq</p>	<p>Experimental adjustment in real time of a semi-active suspension Numerical model integrating a magnetorheological damper <u>S. Boukerroum</u>, N. Kheznadji, N. Hamzaoui, Algeria</p>	<p>Analysis of dynamic characteristics for helicopter rotor-body system with lag damper in time domain <u>Tianpeng He</u>, Shu Li, Hengxuan Gao, Lijun Wei, China</p>
<p>Study of photoageing of polypropylene film M. Madani, <u>F. Benkhenafou</u>, N. Benseddiq, L. Douadji, Algeria</p>	<p>Friction stir welded dissimilar Al-Mg joints – improving impact strength by process parameter selection Zeina G. El Chlouk, Georges Ayoub, Bilal Mansoor, <u>Ramsey F. Hamade</u>, Lebanon</p>	<p>Experimental and numerical comparison of the oil mist film formation used in milling process <u>A. Duchosa</u>, S. Werda, R. Serra, R. Leroy, H. Hamdi, France</p>	<p>First-principles study of Sc_{1-x}Ti_xF₃ (x ≤ 0.375): negative thermal expansion, phase transition and compressibility <u>Lei Wang</u>, Cong Wang, Ying Sun, Sihao Deng, Kewen Shi, Huiqing Lu, Pengwei Hu, Xiaoyun Zhang, China</p>

<p><i>Theoretical and structural design of high head tubular turbine</i> Song Wenwu, Jiang Qifeng, Zhao Fei, Wang Huiyan, China</p>	<p><i>Mechanical properties of hybrid carbon fiber reinforced polyethylene and epoxy composites</i> Y. Dobah, Y. Ghazzawi, M. Bourchak, Saudi Arabia</p>	<p><i>Micromechanical model prediction of reinforced nanocomposites clay and silica using the self-consistent approach</i> A. Mesbah, K. Azouaoui, S.A. Kaoua, S. Boutaleb, Algeria</p>	<p><i>Periodic oscillations and complexity in predator prey system</i> Radouane Yafia, M.A. Aziz Alaoui, Morocco</p>
<p><i>Numerical evaluation of fracture parameters using strain difference method</i> F. Khelil, A. Talha , B. Aour, Algeria</p>	<p><i>Numerical modeling of nanocomposites with graded interphase</i> S. Boutaleb, K. Azouaoui, S.A. Kaoua, A. Mesbah, Algeria</p>	<p><i>Fracture toughness measurement of Crown-Flint glass polished by free and fixed abrasive grains</i> Mohamed Bentoumi, Djamel Bouzid, Alain Iost, Algeria</p>	<p><i>Fatigue behavior investigation of stabilization construction of posterior lumbar spine pedicle screw: Finite element analysis</i> M. Bendoukha, M. Mosbah, Algeria</p>
<p><i>Optimizing a concrete mixture design using artificial neural networks</i> L. Bal, F. Buyle-Bodin, Algeria</p>	<p><i>Effects of biaxiality constraint on the fracture toughness under mode I loading condition. Instability of crack path direction</i> Krzysztof P. Mróz, Krzysztof Doliński, Poland</p>	<p><i>The mechanical behaviour of a railway bogie under cyclic loading</i> R. Zellagui, A. Bellaouar, Algeria</p>	<p><i>Numerical study of coercive field on a magnetic nanoparticle</i> N. Hurtado, P. Castagno, Venezuela</p>
<p><i>Making and characterisation of an hyper-hardening material containing Sn-Zn by liqui-sol method</i> Mohamed-Salah Mecibah, Cherif Serrer, Algeria</p>	<p><i>Influence of masonry on seismic performance of reinforced concrete structures</i> A. Chertout, N. Djebbar, M.A.H. Bouhamla, Algeria</p>	<p><i>Effect thermal stresses in circular and elliptical bonded composite repair of metallic cracked structures</i> Rachid Mhamdia, B. Serier, B. Bachir Bouiadjra, Nassim Serier, Algeria</p>	<p><i>Recycled oils as potential candidate in tribological engineering applications</i> J.G. Alotaibi , Ayedh Alajmi , B.F. Yousif, Australia</p>
<p><i>Influence lanthanum on corrosion electrochemical behavior of the alloy Al + 6% Li</i> Shuhratjon Nazarov, I. Ganiev, M. Norova, Tajikistan</p>	<p><i>Time-dependent mechanical behavior of the human spine</i> A. Derrouiche, J. Ismail, C. Ovalle Rodas, F. Zaïri, M. Naït-Abdelaziz, France</p>	<p><i>Numerical investigation of the menisectomies effect on the biomechanical behavior of the human knee</i> Issam Fares, Benaoumeur Aour, Algeria</p>	<p><i>Embolization of blood vessels by glue injection: Study of the kinetics of polymerization</i> Yongjiang Li, Dominique Barthès-Biesel, Anne-Virginie Salsac, France</p>
<p><i>Tribological characterisation of superalloys at high temperature</i> Subash Chandra Bose, India</p>	<p><i>Development of new biodegradable packaging</i> A. Serier, D. Aoufi, Algeria</p>		

The book of the conference will be
downloaded from the ICMCSF website
from 22 June 2015:

<http://www.icmcsf.com/>