

Tuesday - May 17, 2016

Specialized School: "ECO-MATERIAL, ENERGY AND SUSTAINABLE CONSTRUCTION"

*Amphithéâtre du pôle communication, Multimédia et réseaux*

|          |   |   |
|----------|---|---|
| 8:00 AM  | Specialized School - Opening session<br>Prof. Belarbi R., Prof. Bennacer R., Prof. El Ganaoui M.  |   |
| 8:30 AM  | EL GANAOUI M., <i>Université de Lorraine, France</i> ,<br>"Cauchemar au doctorat"   |   |
| 9:45 AM  | BENNACER R., <i>ENS Cachan, France</i> ,<br>"La recherche multiphysique autour du bâtiment"   |   |
| 10:30 AM | Free time   |   |
| 11:00 AM | BELARBI R., <i>Université de La Rochelle, France</i> ,<br>"Mécanismes de Transferts Couplés Chaleur/Humidité"   |   |
| 11:45 AM | HRISTOV J., <i>University of Chemical Technology and Metallurgy, BULGARIA</i> ,<br>"Time-fractional models by Integral-balance"   |   |
| 12:30 PM | Free time   |   |
| 1:30 PM  | LACROIX M., <i>Université de Sherbrooke, Canada</i> ,<br>"L'énergie, la santé et la richesse"   |   |
| 2:25 PM  | KADRI E-H., <i>Université de Cergy Pontoise, France</i><br>"Rhéologie et Tribologie des Matériaux Cimentaire et leur Applications"  |   |
| 3:20 PM  | Free time   |   |
| 3:35 PM  | DEGLISE X., <i>Université de Lorraine, France</i> ,<br>"Introduction au matériau Bois"  |   |
| 4:30 PM  | TCHANCHE B., <i>International Institute for Sustainable Development, Germany</i> ,<br>"Organic rankine cycle systems and their potential contribution to climate change mitigation" | Registration / Enregistrement<br>(Pôle Communication, Multimédia & Réseaux) |
| 6:30 PM  |   |   |

6:30 PM

End of the first day of thematic school

Wednesday - May 18, 2016

|          |   |  |  |
|----------|---|--|--|
| 8:00 AM  | Registration / Enregistrement<br>(Pôle Communication, Multimédia & Réseaux)   |  |  |
| 9:00 AM  | Opening Session - <i>Chairs: R. Belarbi, R. Bennacer, M. El Ganaoui</i><br>(Pôle Communication Multimédia & Réseaux)  |  |  |
| 9:45 AM  | Keynote - <i>Prof. Combarous M., "World production and energy consumptions: what kind of mid-term evolutions?"</i><br>Chairman: R. Bennacer (Pôle Communication Multimédia & Réseaux)   |  |  |
| 10:40 AM | Coffee Break (Technoforum)  |  |  |
| 11:10 AM | Keynote - <i>Prof. Lacroix M., "Transition to renewable energies: a reality check"</i><br>Chairman: M. El Ganaoui (Pôle Communication Multimédia & Réseaux)   |  |  |
| 12:05 AM | Lunch (Technoforum)   |  |  |
| 1:30 PM  | <p><b>Parallel Session "S1A" - Room Orbigny C01</b><br/><i>Thermal Building and Optimisation</i><br/>Chairman: R. Djedjig</p>   | <p><b>Parallel Session "S1B" - Room Orbigny C02</b><br/><i>Building Materials</i><br/>Chairman: K. Abahri</p>  | <p><b>Parallel Session "S1C" - Room Orbigny A300</b><br/><i>Sustainable Constructive materials(I)</i><br/>Chairman: P. Turcry</p>  |
|          | <p>52 Mohamed Said D. et al.,<br/>"Study energy consumption in residential buildings in hot humid climat in djibouti"</p> <p>165 Morsli S. et al., "Numerical investigation of entropy generation in a propane-air burner"</p> <p>60 Benachour E. et al., "Numerical evaluation of the insulation by the mud on the thermal convection in buildings."</p> <p>62 Eddib F. et al., "Validation of a study on the evaluation of buildings energy north of morocco with software trnsys16"</p> <p>73 Gourdo L. et al., ""<br/>"Heating of a greenhouse by means of a rock bed accumulator"</p> <p>80 Idchabani R. et al., "Analysis of exterior shading by overhangs and fins in hot climate"</p> <p>87 Kaloun S. et al., "Energy efficiency in building: the effect of building envelope on optimal calculation of the building orientation"</p> <p>97 Kharbouch Y. et al., "A simulation based-optimization method for energy efficiency of a multi-zone house integrated phase change material"</p> <p>104 Hamdani M. et al., "The study natural ventilation by using buildings windows: case study in a hot dry climate, ghardaïa, algeria"</p> <p>123 Benzaama M.H. et al., "Study of the effect of sun patch on the transient thermal behaviour of a heating floor"</p> <p>136 Lajimi N. et al., "Effect of the occupant and the inside faces coating of a multi- alveolar structure on the unsteady thermal behavior of a bi-zone building"</p> <p>139 Benameur O. et al., "The effects of water fountains on thermal comfort in courtyard houses in saharan regions"</p> <p>143 Mansouri O. et al., "Albedo effect of external surfaces on the energy loads and thermal comfort in buildings"</p> <p>186 Hamza Cherif Y. et al., "<br/>"Study of the impact of opening on the light and thermal efficiency"</p> <p>175 Tibermacine I. et al., "<br/>"Effects of building typology on energy consumption in hot and arid regions "</p> | <p>6 Slimani Z. et al., "Design of an experimental device for the study of hygrothermal behavior for very hygroscopic walls"</p> <p>59 El Khattabi E. et al., "Effect of locations and thicknesses for the different material constituting a building wall"</p> <p>64 Bennai F. et al., "Heat transfer in porous building material"</p> <p>111 Qin M. et al., "Synthesis and characteristics of composite phase change humidity control materials"</p> <p>117 El Afi M. et al., "Infrared thermography and finite element method applied to the detection of a plaster detachment"</p> <p>125 Ferroukhi M.Y. et al., "Experimental validation of a ham-bes co-simulation approach"</p> <p>133 Issaadi N. et al., "Experimental assessment of the variability of concrete air permeability: repeatability, reproducibility and spatial variability "</p> <p>144 Ouleghlou M. et al., "Optimal control by using reduced order models for transfer equations"</p> <p>151 Raefat S. et al., "Thermal transmittance comparison between multilayer walls made from hollow fired clay and plaster-granular cork bricks using electrical analogy"</p> <p>174 Thi V. et al., "Numerical analysis of heat and moisture transfer in porous material"</p> <p>196 Merioua A. et al., "Electrical prediction of tortuosity in porous media"</p> <p>198 Mohammed Belhadj A.H. et al., "Comparison between the permeability water and gas permeability of the concretes under the effect of temperature"</p> <p>201 Benchiheub D. et al., "Valuation of natural pozzolan for energy renovation of old buildings"</p> <p>146 Djedjig R. et al., "Green wall impacts inside and outside buildings: experimental study"</p> | <p>30 Bordy A. et al., "Influence of drying conditions on hydration of cement pastes with substitution of portland cement by a recycled cement paste fine"</p> <p>34 Kebaili B. et al., "Effect of concrete waste quality on the compressive strength of recycled concrete"</p> <p>98 Falek K. et al., "Influence of recycled aggregates on the mechanical and tribological behavior of concrete"</p> <p>101 Azzouz L. et al., "Performance of dune sand concrete made using recycled materials"</p> <p>103 Thieblessou L.M. et al., "Elaboration and characterization of eco-materials made from recycled or bio-based raw materials"</p> <p>112 Senani M. et al., "Characterization of sand slag concrete "</p> <p>115 Bentchikou M. et al., "Comparative study of the properties of mortars with recycled glass aggregates incorporated by adding and substituting"</p> <p>138 Goufi N. et al., "Analysis of physical and mechanical properties of concrete containing recycled aggregate for the enhance of these aggregates "</p> <p>154 Berdoudi S. et al., "Valorization of quarries marble wastes sand as an addition in cement"</p> <p>160 Setti B. et al., "Properties of fiber reinforced concrete using recycled aggregates"</p> <p>178 Toure P.M. et al., "Mechanical and thermal characterization of stabilized earth bricks"</p> <p>210 Khaldi M. et al., "Characterization study of the anisotropy of natural alfa fibers and their interphase with epoxy resin by nanoindentation tests"</p> <p>200 Beghdad H. et al., "Contribution to the modeling of cracked composite panels"</p> |
| 2:30 PM  |   |  |  |

Wednesday - May 18, 2016

2:35 PM

| Parallel Session "S2A" - Room Orbigny C01<br>Heat and Mass transfert Optimisation (I)<br>Chairman: H. Ben Hamed  | Parallel Session "S2B" - Room Orbigny C02<br>Materials/Energy Products<br>Chairman: K. Limam   | Parallel Session "S2C" - Room Orbigny A300<br>Sustainable Constructive materials(II)<br>O. Amiri  |
|--|--|---|
| 1 Abbas A. et al., "Analytical and numerical study of double diffusive convection with sores and dufour effects in a horizontal porous layer"  | 2 Gherbia A. et al., "The use of pleurotus mutilus as biosorbent for nickel (ii) removal from synthetic aqueous solution in a fixed-bed column"                | 13 Boukhelkhal A. et al., "Effects of waste marble powder on rheological properties and strength of self-compacting concrete"   |
| 5 Boutra A. et al., "Free convection heat transfer of nanofluids into cubical enclosures with a bottom heat source: lattice boltzmann application"   | 3 Boutahir M. et al., "Electronic properties of phosphorene nanoribbons"   | 18 Adjoudj M. et al., "Effect of water film thickness on the rheological behavior in the presence of mineral addition with polycarboxylate superplasticizer"                    |
| 20 Guessab A. et al., "Numerical analysis of non-premixed combustion using 2d and 3d unsteady reynolds averaged navier-stokes equations"   | 4 Rahmani A. et al., "Theoretical infrared phonon modes and band gap calculations of a bundle of two single walled carbon nanotubes"                           | 86 Ngo H-T. et al., "Energy consumption reduction in concrete mixing process by optimising mixing time"   |
| 28 Hadeif A. et al., "Quantification of emissions in a turbulent diffusion flame applied to a burner "   | 26 Aklouche S. et al., "Oxydation of a nanostructured superalloy of high temperature"  | 142 Amine Y. et al., "Effect of supplementary cementitious materials (scm) on delayed ettringite formation in heat-cured concretes"   |
| 45 Bouatba I. et al., "Study of the coke combustion kinetics: the modeling of a natural phosphate calcination process"   | 41 Benantar C. et al., "Analytic study of oxygen diffusion in aluminum alloy at high temperature"  | 145 Namouniara K. et al., "Influence of accelerated carbonation on CO2 diffusion coefficient of cement pastes"  |
| 84 Hamdi J. et al., "Volume reconstruction of a plane jet impinging on a slotted plate using the phase averaged method"  | 42 Mistak A. et al., "Numerical modelling of hdpe behavior during 2-ecap process using 90° and 120° dies"  | 147 Cherif R. et al., "Chemical composition of the interstitial solution of cementitious materials"   |
| 90 Bara E.H. et al., "Parametric study on natural convection for nanofluids in a heated chamber"   | 71 Achchaq F. et al., "Peritectic structures proposed as materials for thermal energy storage"   | 166 Soualhi H. et al., "Practical concrete rheometer with new vane geometry"  |
| 96 Rehhali K. et al., "Mrt-scheme applied to natural convection coupled to surface radiation in a cavity partially heated from one vertical side and cooled from above"                              | 72 Godin A. et al., "Crystallization activation of undercooled xylitol by bubbling for energy discharge process"   | 182 Juimo Tchamdjou W.H. et al., "Influence of different amounts of natural pozzolan from cameroonian volcanic scoria on the rheological properties of portland cement pastes " |
| 122 Hasnat M. et al., "Control volume finite element method for a benchmark validation of a natural convection in a square cavity"   | 94 Khachab H. et al., "In situ simulation by rheed and photoemission of inas (001) alpha2(2x4) reconstructed surface"  | 183 Juimo Tchamdjou W.H. et al., "Influence of the color of natural pozzolan from cameroonian volcanic scoria on the rheological properties of portland cement pastes"          |
| 129 Alliche M. et al., "Numerical simulation of ch4 -h2-air non-premixed flame stabilized by a bluff body"   | 106 Ettakni M. et al., "Synthesis, characterization, electron paramagnetic resonance and uv-visible study of perovskite layered system [NH3-(CH2)8-NH3]2CuCl4" | 189 Didouche Z. et al., "Hydration kinetics of compound cement in the presence of superplasticizers"  |
| 152 Hasnaoui S. et al., "Hybrid fd-lbm simulations of thermosolutal convection generated in an inclined enclosure in the presence of sores and dufour effects with heatlines and masslines concepts" | 137 Hemmani A. et al., "Optimization of the band gap and transmitter thickness to boost efficiency of alxga1-xas/ gaas multi-junction solar cell"              | 192 Djecri N. et al., "Study of the effect of marble fillers substitution of cement on the rheological and mechanical characteristics of the self-compacting concrete (scc)"    |
| 53 Derbal R. et al., "Rehafutur : insitu instrumentation for a comprehensive building analysis"  | 164 Bentaalla-Kaced S. et al., "The dolerite of tindouf basin (naga)"  | 180 Deboucha W. et al., "Natural pozzolana addition effect on compressive strength and capillary water absorption of mortar"  |
| 211 Laaouatini A. et al., "Phase change materials for improving the inertia thermal of building materials"   | 173 Thameur A. et al., "Stability study of output voltages of single stage three levels inverter for pv system in south algeria"                               | 69 Fizi Y. et al., "Microstructure characterization and numerical analysis of the mechanical behaviour of arc-sprayed composite coating"  |
|  | 197 Bensebti S.E. et al., "Experimental test for evaluation of scc static segregation"   | 140 Amellal O. et al., "Vulnerability assessment for steel structures"  |
|  | 207 Dennai B. et al., "Effect of tunnel junction on the indium gallium nitride multijunction tandem solar cell performances"                                   | 191 Zidour M. et al., "Buckling analysis of chiral single-walled carbon nanotubes using non-local timoshenko beam theory"   |

3:35 PM

**Poster Session (S1A, S1B, S1C & S2A, S2B, S2C) / Coffee break (Technoforum)**

4:35 PM

**Keynote - Prof. Asinari P., "Engineering interfaces and nanofluids for energy applications"**

5:30 PM

**Chairman: B. Zeghmati (Pôle Communication Multimédia & Réseaux)**

Specialized School - Continuation

5:45 PM

**Dr Djedjig R., Université de Lorraine, France**  
"Atelier Logiciel : Introduction à TRNSYS" - Orbigny A300

6:30 PM

**Dr Abahri K., ENS Cachan, France**  
"Atelier Logiciel : Introduction à COMSOL Multiphysics" - Orbigny A300

7:30 PM

Thursday - May 19, 2016

8:15 AM **Keynote - Prof. Deglise X., "Trend and opportunities in wood based bio-industries"**  
 Chairman: M. Bensaïbi (Pôle Communication Multimédia & Réseaux)

| 9:10 AM | Parallel Session "S3A" - Room Orbigny C01<br><i>Heat and Mass transfert Optimisation(II)</i><br>Chairman: N. Martaj                                      | Parallel Session "S3B" - Room Orbigny C02<br><i>Hygroscopic &amp; Bio-Materials /Composites</i><br>Chairman: F. Collet                           |
|---------|--|--|
| 37      | Belaid A. et al., "Study of laminar-turbulent transient flow conjugated with mixed convection in a vertical channel"                                     | 14 Achour A. et al., "Thermal conductivity and thermal degradation of cementitious mortars reinforced with doum and diss fibers"                 |
| 43      | Cherifi M. et al., "Coupled radiation and double-diffusive laminar mixed convection flow in a lid-driven cavity"   | 35 Bahria S. et al., "A dynamic simulation of the low-energy building using the wood-based material"   |
| 63      | Zemani-Kaci F. et al., "Unsteady natural convection in a water filled cavity with hot partitioned wall"  | 38 Belhadj B. et al., "Effect of wall orientation of the sand concrete lightened by lignocellulosic materials on the thermal inertia properties" |
| 66      | Ben Aoua S. et al., "Study of dynamic and thermal fields in a channel filled with an anisotropic porous matrix"  | 47 Bourdot A. et al., "Hygrothermal properties of hemp starch composite"   |
| 74      | Ben Hamed H. et al., "Numerical analysis of bifurcations in thermal convection of Boger fluids saturating a porous square box"                           | 48 Attaf B., "On the application of carbon nanotube-based composite materials for smart design of wind turbine blades"                           |
| 93      | Ragui K. et al., "Critical dimension of a circular heat and solute source for an optimum transfer into square porous enclosures"                         | 51 Collet F. et al., "Hemp-straw composites: thermal and hygric performances"  |
| 95      | Choukairy K. et al., "Numerical and analytical analysis of the thermosolutal convection in an heterogeneous porous cavity"                               | 54 Basaid D. et al., "Influence of hardener type for epoxy matrix on the mechanical behavior of composite laminates"                             |
| 132     | Himrane N. et al., "Effect of buoyancy ratio on unsteady double diffusive natural convection in vertical open-ended cylinder filled with porous medium." | 58 El Hachem C. et al., "Microscopic swelling analysis of spruce wood in sorption cycle"   |
| 153     | Sahraoui N.M. et al., "Mixed convection in horizontal duct with double population lattice boltzmann method"  | 88 Remki B. et al., "Hydric and structural approaches for earth based materials characterization"  |
| 159     | Habbachi F. et al., "Three-dimensional simulation of natural convection in cubic cavity partially filled with porous media"                              | 108 Andrianantenaina M.H. et al., "Modelling of heat and mass transfer during convective drying of wood"   |
| 181     | Boudaoud W. et al., "Numerical analysis of al2o3/water nanofluids natural convection and entropy generation in enclosures"                               | 109 Mazhoud B. et al., "Characterization and comparison of thermal and hygric properties of hemp-clay composite and hemp-lime concrete"          |
| 184     | Mahdhaoui H. et al., "Numerical simulation of flow through a porous square cylinder"   | 110 Medjelekh D. et al., "Multi-scale characterization of hygrothermal transfers in the unfired earth"   |
| 185     | Mchirgui O. et al., "Heat and mass transfers by natural convection during water evaporation in a vertical channel with a protuberance"                   | 113 Metiche S. et al., "Experimental evaluation of load-strain behaviour of gfrp poles under flexural loading."                                  |
| 168     | Souihel M. et al., "Simultaneous estimation of volumetric capacity and thermal conductivity of moroccan wood species from experimental flash method "    | 118 Khodjet Kesba M. et al., "Evolution of the stress distribution in the cross-ply aged composite laminates"                                    |
|         |  | 134 Saoudi N. et al., "Distribution of fibers and their effect on lateral deformation"   |

10:00 AM **Poster Session (S3A, S3B) Coffee break (Technoforum)**

11:00 AM **Keynote - Prof. Qin M., "Synthesis and characteristics of composite phase change humidity control materials"**  
 Chariman: P. Asinari (Pôle Communication Multimédia & Réseaux)

12:00 AM **Lunch (Technoforum)**

1:30 PM **Keynote - Prof. Hauser E., " transformation of the electricity system to a renewables based-one: necessary political and economical regulatory framework"**  
 Chairman: A. Ouadha (Pôle Communication Multimédia & Réseaux)

Thursday - May 19, 2016

2:30 PM

| Parallel Session "S4A" - Room Orbigny C01<br><i>Thermal Building and Energy Storage</i><br>Chairman: M. Duquesne  | Parallel Session "S4B" - Room Orbigny C02<br><i>Energetic systems</i><br>Chairman: E. Bozonnet  | Parallel Session "S4C" - Room Orbigny A300<br><i>Constructive materials: Mechanical Optimisation</i><br>Chairman: M. Abed   |
|---|---|---|
| 49 Kedissa C. et al., "Simulation of summer and winter microclimate and thermal comfort within urban open space in semi-arid climate"   | 17 Adjibade M.I.S. et al., "Energetic analysis and optimization regime of temperatures for absorption chiller single stage h2o-nh3"                           | 7 Abdelli K. et al., "Influence of the pozzolanic reactivity of the slag and metakaolin on mortars"   |
| 57 Duquesne M. et al., "Crystal growth kinetics of sugar alcohols as phase change materials for thermal energy storage"   | 22 Bounefour O. et al., "Performance improvement of combined organic rankine-vapor compression cycle using a serial cascade evaporation in the organic cycle" | 8 Abdelli K. et al., "Influence of the origin of metakaolin on pozzolanic reactivity of mortars"  |
| 76 Hasseine A. et al., "On the semi-analytical solution of integro-partial differential equations"  | 23 Djermouni M. et al., "Comparative assesment of lng and lpg in hcci engines"  | 21 Merah A. et al., "The behavior of concrete based on opc cement and blended cement subjected to accelerated carbonation"  |
| 102 Bin L. et al., "Effect of the position of the phase change material (pcm na2CO3-10H2O) on the solar chimney effect"   | 32 Attarakih M. et al., "Modelling of an rdc extraction column using the differential maximum entropy method (dmaxentm)"                                      | 27 Al-Khazraji H. et al., "Meso-scale analysis of the aggregate size influence on the mechanical properties of heterogeneous materials using the brazilian splitting test " |
| 119 Binous M.S. et al., "Numerical study of transfer by convection in a lid-driven cavity with a thin pcm layer "   | 40 Ben Iffa R. et al., "Perfrmance optimization for absorption refrigeration machine "  | 29 Meksen A. et al., "Prediction of the stiffnes modulus of a polymer modified asphalt via the experimental design method"  |
| 149 Elbahjaoui R. et al., "Numerical study of the solidification of nano-enhanced phase change material in a latent heat storage unit cooled by laminar heat transfer fluid flow" | 46 Lounissi D. et al., "Energetic and exergetic analysis of a novel mixture for an absorption/compression refrigeration system: r245fa/dmac"                  | 39 Belkadi M. et al., "Effect of the glass powder and the polypropylene fibers on the characteristics of high-performance concretes"  |
| 167 Souci Y. et al., "Study of thermo physical properties of a building material based on pcm"  | 50 Borisut C. et al., "Experimental investigation of syngas and hydrogen"   | 44 Bensalem S. et al., "The total replacement effect of limestone powder by marble powder on the freeze-thaw resistance of the self-compacting concrete"                    |
| 202 Benaouda N-E. et al., "Numerical modelling of solar drying of thin layer of wet sand"   | 177 Toujeni N. et al., "Analyze the performance of a new system which combines orc-vcc for the cogeneration"  | 100 Azzouz L. et al., "Effect of sand type on performances of self-compacting concrete"   |
| 205 Ben Hassine N. et al., "Numerical simulation of heat and mass transfers during solar drying of residual sludge: solar radiation effect"                                       | 89 Dehina K. et al., "Numerical modeling of a refreshing buried tank"   | 190 Zaidi A. et al., "Frp properties effect on numerical deformations in frp bars-reinforced concrete elements in hot zone"   |
| 206 Mnasri F. et al., "Numerical study of coupled heat of and mass transfers in multilayer building materials: analysis of the effect of internal and external insulation"        | 127 Ibrahim M. et al., "Design analysis of a mvc desalination unit powred by a grid connected photovoltaic system "   | 199 Rahal N. et al., "Time-dependent behavior of composite steel-concrete beams with creep according eurocode 4"  |
| 208 Belahya H. et al., "A comparative study about the energetic impact of dryland residential buildings with the integration of photovoltaic system"                              | 148 Ait El Cadi R. et al., "Thermal and optical analysis of a 3.9 mwth parabolic trough solar collector operating with air at 600°C"                          | 209 Hammou Y. et al., "Dynamic analysis of fiber reinforced composite beam containing a transverse crack"   |
| 171 Issaadi-Hamitouche T. et al., "Instant autovaporization as intensification way of classic distillation processes: fundamental and industrial applications"                    | 155 Ben Mabrouk S. et al., "Simulation of photovoltaic installation connected to the grid with storage system"  | 161 Setti F. et al., "Abrasion resistance of concrete and high strength concrete reinforced with steel fibers"  |
| 56 Sahel D. et al., "Thermal characteristic in solar air heater fitted with plate baffles and heating corrugated surface"   | 162 Soli N., "A numerical investigation of a diffusion-absorption chiller based on propylene-nonane mixture "   | 163 Adafer S. et al., "Seismic vulnerability classification of roads"   |
| 10 Tahiri A. et al., "Radiative forcing of desert aerosol observed at ouarzazate (morocco), tamanrasset (algeria) and ilorin (nigeria)"   | 187 Boukhchana Y. et al., "Transient analysis of an absorption solar refrigerator with external and internal irreversibilities"                               | 172 Ayad T. et al., "Mechanical behaviour of a structure reinforced by carbone fibers"  |
|   |   | 158 Bodian S. et al., "Thermo-mechanical behavior of unfired clay bricks and fired clay bricks made from a mixture of clay and laterite"                                    |

3:30 PM

**Poster Session (S4A, S4B, S4C) Coffee break (Technoforum)**

4:30 PM

**Mini Symposia / Commission and specific meetings (Open to the public)**

5:30 PM

**Free time (Visit fo the city)**

7:30 PM

**Gala dinner & Awards (Restaurant Océanide - Hotel Mercure)**

Friday - May 20, 2016

8:15 AM **Keynote - Prof. Rees A., "The effect of microstructure on the two dimensional flow of a bingham fluid in porous media"**  
 Chairman: N. Boukadida (Pôle Communication Multimédia & Réseaux)

9:10 AM

| Parallel Session "S5A" - Room Orbigny C01<br>Inner and outer Flows<br>Chairman: S. Morsli |  |
|---|--|
| 19  | Benabed A. et al., "Resuspension of indoor particles due to human foot motion"   |
| 33  | Azirou S. et al., "Experimental investigation of soil particles filtration process through granular porous media"  |
| 79  | Houda S. et al., "A cfd comsol model for simulating complex urban flow "   |
| 82  | Assoum H.H. et al., "Dynamics of a plane impinging jet in the presence of self-sustaining sound: correlation between the acoustic field and the transverse velocity" |
| 83  | Assoum H.H. et al., "The turbulent kinetic energy and the acoustic field in a rectangular jet impinging a slotted plate "  |
| 85  | Janssens B. et al., "Finite element modeling of polydisperse flows using the direct quadrature method of moments"  |
| 91  | Limam K. et al., "Numerical study of transport and particle deposition inside buildings"   |
| 92  | Fortain A. et al., "Experimental study of particle concentrations in an underground magenta metro station of paris"  |
| 107   | Benamour M. et al., "An approach using lattice boltzmann method to simulate fluid- structure-interaction"  |
| 128   | Alliche M. et al., "Validation of turbulence models for simulation of turbulent flow of air around an obstacle square section "                                      |
| 130   | Boussoufi M. et al., "Cfd-based entropy generation analysis of multiple jets"  |
| 156   | Leclaire S. et al., "A geometrical approach for simulating static contact angles in multiphase flows with a lattice boltzmann method"                                |
| 179   | Tovondrainy N. et al., "Article: numerical study of heat transfer and flow characteristics of air jet in a semi-confined cavity"                                     |
| 188   | Kamla Y. et al., "Effects of the diameter and blades orientation on the mixing tank efficiency"  |
| 194   | Koufi L. et al., "Numerical investigation and analysis of indoor air quality in a room based on impoinaina iet ventilation"  |

COMMISSIONS

| Parallel Session "S5B" - Room Orbigny C02<br>Safety / reliability and durability<br>Chairman: F. Oueslati |   |
|---|---|
| 12  | Aouane A. et al., "Risk-eu method applied to the algerian city of arzew to assess exposure to earthquakes"  |
| 24  | Latroch N. et al., "Composite materials containing different polymer levels: designing & estimating durability indicators"                          |
| 36  | Bajja Z. et al., "Experimental and computer modeling study of the diffusivity in cement-silica fume based materials"                                |
| 68  | Halfaya F.Z. et al., "Seismic scenarios of tipaza network supply"   |
| 77  | Chalabi H. et al., "Chloride transport on partially saturated concrete media: the influence of the hydric state "                                   |
| 81  | Djafar Henni I. et al., "Rehabilitation study of construction built in seismic zone in algeria"   |
| 105   | Djaalil F. et al., "Seismic fragility curves of unreinforced masonry structures"  |
| 116   | Djemaï M.C. et al., "Seismic vulnerability index for bridges"   |
| 121   | Lakhdari M.F. et al., "Combined effect of temperature and sulfate attack on the durability of repair mortar based on mixture of dune-alluvial sand" |
| 124   | Rouibi M. et al., "Effect of sand nature and rate of natural pozzolana on the durability of mortars "   |
| 135   | Belayachi N. et al., "Impact of fiber treatment on the fire reaction and thermal degradation of building insulation straw composite"                |
| 157   | Sebsadji S.K. et al., "Fractal dimension of concrete mix gradation: a quantitative parameter for some concrete properties"                          |
| 169   | Tadger K. et al., "Seismic vulnerability assessment of blida city "   |
| 9   | Kaddour A. et al., "Influence of the cooling of building surfaces on the temperature of indoor air"   |

10:10 AM **Poster Session (S5) Coffee break (Technoforum)**

11:05 AM **Keynote - Prof. Hristov J., "Time-space-fractional models of anomalous diffusion"**  
 Chairman: M. Qin (Pôle Communication Multimédia & Réseaux)

12:05 AM **Lunch (Technoforum)**

1:30 PM **Keynote - Prof. Charrier El-Bouhtoury F., "Durability of wood based materials"**  
 Chariman: S. Gabsi (Pôle Communication Multimédia & Réseaux)

2:30 PM **Discussions & Closing ceremony**