

PUBLICATIONS DU LOCIE

JANVIER 2014 – JUIN 2019

REVUES SCIENTIFIQUES / OUVRAGE / CONFERENCES / INVITATIONS / BREVETS

1- Journaux / Revues

Un code couleur particulier est utilisé dans la liste des publications :

- **rouge** pour les doctorants du LOCIE
- **violet** pour les doctorants autres labos encadrés par un membre du LOCIE,
- **vert** pour les autres étudiants du LOCIE (stagiaires ingénieurs ou master par exemple)
- **orange** pour les post doctorants du LOCIE
- **bleu** pour les partenaires internationaux quand le travail a été fait en collaboration avec ces partenaires.
- **Encadré** : 20% jugées les plussinificatifs

Articles scientifiques (nombre total = 165)

2014 (17)

ACL-2014-1 FORMOSA F., BADEL A., WU Y., AGBOSSOU A., **Self-powered nonlinear harvesting circuit with a mechanical switch structure for a bistable generator with stoppers**, *Sensors and Actuators A: Physical*, 216 (2014) 106-115

ACL-2014-2 LIU W., BADEL A., FORMOSA F., WU Y., BENCHEIKH N., AGBOSSOU A., **A wideband integrated piezoelectric bistable generator: Experimental performance evaluation and potential for real environmental vibrations**, *Journal of Intelligent Material Systems and Structures*, 26 (7) (2014) 872-877

ACL-2014-3 GOULET R., KNIKKER R., BOUDARD E., STUTZ B., BONJOUR J., **A numerical and experimental analysis of the process of water vapour absorption by a static lithium bromide solution**, *Heat Mass Transfer* 50 (2014) 285–300

ACL-2014-4 MOCH X., PALOMARES M., CLAUDON F., SOUYRI B., STUTZ B., **Geothermal helical heat exchangers: Comparison and use of two-dimensional axisymmetric models**, *Applied Thermal Engineering*, 73 (1) (2014) 689–696

ACL-2014-5 LEPAGE G., PERRIER G., RAMOUSSE J., MERLIN G., **Firsts steps towards a two-dimensional constructal microbial fuel cell**, *Bioresource Technology*, 162 (2014) 123-128.

ACL-2014-6 LEPAGE G., PERRIER G., MERLIN G., DOMINGUEZ-BENETTON X., ARYAL N., **Multifactorial evaluation of the electrochemical response of a microbial fuel cell**. *RSC Advances*, 2014, 4(45), 23815-23825.

ACL-2014-7 BUI Q.B., MOMMESSIN M., PERROTIN P., PLE O., **Assessing local-scale damage in reinforced concrete frame structures using dynamic measurements**. *Engineering Structures*, 79 (2014) 22-31

ACL-2014-8 BERGER J., CHHAY M., GUERNOUTI M., WOLOSZYN, **Proper Generalised Decompositio for solving coupled heat and moisture transfers**, *Journal of Building Performance Simulation*, 8 (5) (2014) 295–311.

ACL-2014-9 HORT C., PLATEL V., SOCHARD S., LUENGAS MUÑOZ A.T., ONDARTS M., REGUER A., BARONA A., ELIAS A., **A hybrid biological process of indoor air treatment for toluene removal**, *Journal of the Air & Waste Management Association*, 64(12) (2014) 1403–1409

ACL-2014-10 PRADAS M., TSELUIKO D., BUYER-QUIL C., KALLIADASIS S., **Pulse dynamics in a power law falling film** *J. Fluid Mech.* 747 (2014) 460-480

ACL-2014-11 CHAKRABORTY, NGUYEN P.K., BUYER-QUIL C., BONTOZOGLOU V., **Extreme solitary waves on falling liquid films** *J. Fluid Mech.* 745 (2014) 564-591

ACL-2014-12 BUYER-QUIL C., KOFMAN N., CHASSEUR D., MERGUI S., **Dynamics of falling liquid films** *Eur. Phys. J.*, 37 (4) (2014) 30

ACL-2014-13 KOFMAN N., MERGUI S., BUYER-QUIL C., **Three-dimensional instabilities of quasi-solitary waves in a falling liquid film** *J. Fluid Mech.*, 757 (2014) 854-857

ACL-2014-14 N'TSOUKPOE K.E., PERIER-MUZET M., LE PIERRES N., LUO L., MANGIN D., **Thermodynamic study of a LiBr-H₂O absorption process with crystallisation of the solution for solar thermal storage**, *Solar Energy*, 104 (2014) .2-15

ACL-2014-15 HA THUC C.N., CAO H.T., NGUYEN D.M., TRAN M.A., DUCLAUX L., GRILLET A.C., HA THUC H., Preparation and Characterization of Polyurethane Nanocomposites Using Vietnamese Montmorillonite Modified by Polyol Surfactants, *Journal of Nanomaterials*, (2014). <http://dx.doi.org/10.1155/2014/3027351>

ACL-2014-16 DUPYRAT P., MENEZO C., FORTUIN S., Study of the thermal and electrical performances of PVT solar hot water system, *Energy and Buildings*, 68 (2014) 751–755

ACL-2014-17 YA ASSOA B., MENEZO C., Dynamic study of a new concept of photovoltaic–thermal hybrid collector, *Solar Energy* 107 (2014) 637–652

2015 (26)

ACL-2015-1 DIETZE G.F., RUYER-QUIL C. Films in narrow tubes. *J. Fluid Mech.*, 762 (2015) 68-109.

ACL-2015-2 ANSTETT-COLLIN F., GOFFART J., MARA T., DENIS-VIDAL L., Sensitivity analysis of complex models: Coping with dynamic and static inputs, *Reliability Engineering & System Safety*, 134 (2015) 268-275.

ACL-2015-3 BUI Q.B., MOREL J.C., First Exploratory Study on the Ageing of Rammed Earth Material, *Materials*, 8 (2015) 1-15.

ACL-2015-4 EYMARD M., PLASSIARD J.P., PERROTIN P., LE FAY., S Interfacial strength study between a concrete substrate and an innovative sprayed coating, *Construction and Building Materials*, 79 (2015) 345–356

ACL-2015-5 PASTOR F., PASTOR J., KONDO D., Numerical Limit Analysis and plasticity criterion of a porous Coulomb material with elliptic cylindrical voids, *Comptes Rendus Mecanique*, 343 (2015) 199-209.

ACL-2015-6 MOCH X., PALOMARES M., CLAUDON F., SOUYRI B., STUTZ B., Geothermal helical heat exchangers: Coupling with a reversible heat pump in western Europe, *Applied Thermal Engineering* 81 (2015) 368-375

ACL-2015-7 DUTYKH D., CHHAY M., CLAMOND D., Numerical study of the generalised Klein–Gordon equations, *Physica D: Nonlinear Phenomena*, 304–305 (2015) 23–33

ACL-2015-8 KIRCHEVA N., OUTIN J., PERRIER G., RAMOUSSE J., MERLIN G., LYAUTHEY E., Bio-electrochemical characterization of air-cathode microbial fuel cells with microporous polyethylene/silica membrane as separator, *Bioelectrochemistry*, 106 (2015) 115-124.

ACL-2015-9 EVOLA G., N. LE PIERRES, MARLETTA L., Simulation of a low capacity absorption cooling system for indoor air-conditioning, *International Journal of Heat and Technology* 33 (4) (2015) 203-210.

ACL-2015-10 MERLIN G., OMRI N., GONZE E., VALETTE E., CAUFFET G., HENRY M., Hydraulic continuity and biological effects of low strength very low frequency electromagnetic waves: Case of microbial biofilm growth in water treatment. *Water Research* 83 (2015) 184-194.

ACL-2015-11 GOFFART J., RABOUILLE M., MENDES N., Uncertainty and sensitivity analysis applied to hygrothermal simulation of a brick building in a hot and humid climate, *Journal of Building Performance Simulation*, (2015) <https://www.tandfonline.com/doi/abs/10.1080/19401493.2015.1112430>

ACL-2015-12 BELLEUDY C., KAYELLO A., WOŁOSZYN M., GE H., Experimental and numerical investigations of the effects of air leakage on temperature and moisture fields in porous insulation, *Building and Environment*, 94 (2015) 457-466

ACL-2015-13 RAMOUSSE J., SGORLON D., FRAISSE G., PERRIER-MUZET M., Analytical optimal design of thermoelectric heat pumps. *Applied Thermal Engineering*, 82 (2015) 48–56.

ACL-2015-14 FENIES G., FORMOSA F., RAMOUSSE J., BADEL A., Double acting Stirling engine: Modeling, experiments and optimization. *Applied Energy*, 159 (2015) 350–361

ACL-2015-15 LABAT M., WOŁOSZYN M., GARNIER G., ROUX J.J., Dynamic coupling between vapour and heat transfer in wall assemblies: Analysis of measurements achieved under real climate, *Building and Environment*, 87 (2015) 129-141,

ACL-2015-16 FOQUET M., LEVASSEUR A., MARGNI M., LEBERT A., LASVAUX S., SOUYRI B., BUHE C., WOŁOSZYN M., Methodological challenges and developments in LCA of low energy buildings: Application to biogenic carbon and global warming assessment, *Building and Environment*, 90 (2015) 51-59

ACL-2015-17 BERGER J.; GUERNOUTI S.; WOŁOSZYN M.; BUHE C., Factors governing the development of moisture disorders for integration into building performance simulation, *Journal of Building Engineering*, 3 (2015) 1-15

ACL-2015-18 BERGER J.; GUERNOUTI S.; WOŁOSZYN M.; CHINESTA F., Proper Generalised Decomposition for heat and moisture multizone modelling, *Energy and Buildings*, 105 (2015) 334-351

ACL-2015-19 LAZRAK A., LECONTE A., CHÈZE D., FRAISSE G., PAPILLON P., SOUYRI B., Numerical and experimental results of a novel and generic methodology for energy performance evaluation of thermal systems using renewable energies. *Applied Energy* 158 (2015) 142–156.

ACL-2015-20 SWIATEK M., FRAISSE G., PAILHA M., Stratification Enhancement for an Integrated Collector Storage Solar Water Heater (ICSSWH). *Energy and buildings*, 106 (2015) 35–43

ACL-2015-21 ONDARTS M., OUTIN J., L. REINERT, E. GONZE, L. DUCLAUX, Removal of ozone by activated carbons modified by oxidation treatments, *Eur. Phys. J.*, 224 (9) (2015) 1999–2003

ACL-2015-22 KIPER I., FULCRAND R., PIRAT C., SIMON G., STUTZ B., RAMOS S.M.M., Sessile drop evaporation on (super)hydrophobic surfaces: Effect of low pressure on the contact line dynamics, *Colloids and Surfaces A: Physicochem. Eng. Aspects* 482 (2015) 617–623

ACL-2015-23 PASTOR F., PASTOR J., KONDO D. Numerical Limit Analysis and plasticity criterion of a porous Coulomb material with elliptic cylindrical voids, *Comptes Rendus Mecanique*, 343 (2015) 199–209

ACL-2015-24 HAURANT P., MENEZO C., GAILLARD L., DUPEYRAT P., Dynamic numerical model of a high efficiency PV-T collector integrated into a domestic hot water system, *Solar Energy* 111 (2015) 68–81

ACL-2015-25 L. WEISS, M. AMARA, C. MENEZO Impact of radiative-heat transfer on photovoltaic module temperature, *Progress in Photovoltaic: Research and Application* (2015) <https://doi.org/10.1002/pip.2633>

ACL-2015-26 BERGER J., CHHAY M., GUERNOUTI S., WOLOSZYN M., Proper Generalised Decomposition for solving coupled heat and moisture transfers, *Journal of Building Performance Simulation*, 8 (5) (2015) 295–311

2016 (25)

ACL-2016-1 NGUYEN D.M., VU T.T., GRILLET A.C., HA THUC H., HA THUC C.N., Effect of organoclay on morphology and properties of linear lowdensity polyethylene and Vietnamese cassava starch biobased blend *Carbohydrate Polymers* 136 (2016) 163–170.

ACL-2016-2 TATSIDJODOUNG P., LE PIERRES N., HEINTZ J., LAGRE D., LUO L., DURIER F., Experimental and modelling study of a zeolite reactor for solar heat storage in buildings, *Energy Conversion and Management* 108 (2016) 488–500

ACL-2016-3 BELLEUDY C., WOLOSZYN M., CHAY M., COSNIER M., A 2D model for coupled heat, air, and moisture transfer through porous media in contact with air channels, *International Journal of Heat and Mass Transfer*, 95, (2016), 453–465

ACL-2016-4 LAZRAK A., BOUDEHENN F., BONNOT S., FRAISSE G., LECONTE A., PAPILLON P., SOUYRI B., Development of a dynamic artificial neural network model of an absorption chiller and its experimental validation. *Renewable Energy*, 86 (2016) 1009–1022

ACL-2016-5 NGUYEN D.M., THANH T.D., THUONG N.T., GRILLET A.C., KIM N.H., LEE J.H. Enhanced Mechanical and Thermal Properties of Recycled ABS/Nitrile Rubber/Nanofil N15 Nanocomposites, *Composites Part B* (2016), doi: 10.1016/j.compositesb.2016.03.039.

ACL-2016-6 PERIER-MUZET M., LE PIERRES N., Modeling and analysis of energetic and exergetic efficiencies of a LiBr/H₂O absorption heat storage system for solar space heating in buildings, *Energy Efficiency*, 9 (2) (2016) 281–299

ACL-2016-7 BUI Q B., BUI T T., LIMAM A., Assessing the seismic performance of rammed earth walls by using discrete elements, *Cogent Engineering*, (2016) DOI: 10.1080/23311916.2016.1200835.

ACL-2016-8 SOUDANI L., FABBRI A., MOREL J.C., WOLOSZYN M., CHABRIAC P.A., WONG H., GRILLET A.C. Assessment of the validity of some common assumptions in hygrothermal modelling of earth based materials. *Energy and Buildings* 116 (2016) 498–511.

ACL-2016-9 BERGER J., MAZUROSKI W., MENDES N., GUERNOUTI S., WOLOSZYN M., 2D whole-building hygrothermal simulation analysis based on a PGD reduced order model. *Energy and Buildings* 112 (2016) 49–61

ACL-2016-10 F. PASTOR, K. ANOUKOU, J. PASTOR, D. KONDO. Limit analysis and homogenization of porous materials with Mohr–Coulomb matrix. Part II: Numerical bounds and assessment of the theoretical model. *Journal of the Mechanics and Physics of Solids* 91 (2016) 14–27

ACL-2016-11 NGUYEN D.M., DO T.V.V., GRILLET A.C., HA-THUC H., HA-THUC C.N., Biodegradability of polymer film based on low density polyethylene and cassava starch, *International Biodeterioration & Biodegradation* 115 (2016) 257–265

ACL-2016-12 GUYOT G., FERLAY J., GONZE E., WOLOSZYN M., PLANET P., BELLO T., Multizone air leakage measurements and interactions with ventilation flows in low-energy homes, *Building and Environment*, 107 (2016) 52–63

ACL-2016-13 KOFMAN N., RUYER-QUIL C., MERGUI S. **Selection of solitary waves in vertically falling liquid films** *Int. J. Multiphase flow* 84 (2016) 75-85.

ACL-2016-14 RICHARD G. L., RUYER-QUIL C., JVILA P. **A three-equation model for thin films down an inclined plane** *J. Fluid Mech.* (2016) 162-200.

ACL-2016-15 LIU W., FORMOSA F., BADEL A., AGBOSSOU A., HU G. **Investigation of a buckled beam generator with elastic clamp boundary** *Smart Materials and Structures* 25 (11), 115-137

ACL-2016-16 RAMOUSSE J., PERIER-MUZET M., Entropy generation minimization in thermoelectric heat pump systems with multi-channel heat exchangers, *International Journal of Thermodynamics*, 19:2 (2016) 82-90

ACL-2016-17 ROUCHIER S., WOLOSZYN M., KEDOWIDE Y., BEJAT T. **Identification of the hygrothermal properties of a building envelope material by the Covariance Matrix Adaptation evolution strategy**, *Journal of Building Performance Simulation*, 9 (1) (2016) 101-114

ACL-2016-18 HUREL N., SHERMAN M. H., WALKER I. S. **Sub-additivity in combining infiltration with mechanical ventilation for single zone buildings**. *Building and Environment*, (2016) 98, 89-97

ACL-2016-19 BERGER J., MENDES N., GUERNOUTI S., M., CHINESTA F., Review of Reduced Order Models for Heat and Moisture Transfer in Building Physics with WOLOSZYN Emphasis in PGD Approaches, *Archives of Computational Methods in Engineering*, 24 (3) (2016) 655-667

ACL-2016-20 SAADON S., GAILLARD L., GIROUX-JULIEN S., MÉNÉZO C. **Simulation study of a naturally-ventilated building integrated photovoltaic/thermal (BIPV/T) envelope** - *Renewable Energy* 87 (2016) 517-531

ACL-2016-21 REJEB O., SARDARABADI M., MÉNÉZO C., PASSANDIDEH-FARD M., HOUCINE DHAOU M., JEMNI A. **Numerical and model validation of uncovered nanofluid sheet and tube type photovoltaic thermal solar system** - *Energy Conversion and Management*, 110, 15 (2016), Pages 367-377

ACL-2016-22 GAURA, TIWARI G.N., MÉNÉZO C., AL-HELAL I.M. **Numerical and experimental studies on a Building integrated Semi-transparent Photovoltaic Thermal (BiSPVT) system: Model validation with a prototype test setup**. *Energy Conversion and Management* 129 (2016) 329-343

ACL-2016-23 TKACHENKO O.A., TIMCHENKO V., GIROUX-JULIEN S., MÉNÉZO C., YEOHA G.H., REIZES J.A., SANVICENTE E., FOSSA M. **Numerical and experimental investigation of unsteady natural convection in a non-uniformly heated vertical open-ended channel**. *International Journal of Thermal Sciences* 99 (2016) 9-25

ACL-2016-24 LABAT M., WOLOSZYN M., **Moisture balance assessment at room scale for four cases based on numerical simulations of heat-air-moisture transfers for a realistic occupancy scenario**, *Journal of Building Performance Simulation*, ,9 (5) (2016) 487-509.

ACL-2016-25 BUI T.T., BUI Q.B., LIMAM A, MOREL J.C., **Modeling rammed earth wall using discrete element method**, *Continuum Mechanics and Thermodynamics*, 28 (1-2) (2016).523-538

2017 (29)

ACL-2017-1 SOUDANI L.; WOLOSZYN M.; FABBRI A.; MOREL J-C; GRILLET A-C; **Energy evaluation of rammed earth walls using long term in-situ measurements**, *Solar Energy*, 141 (2017) 70-80

ACL-2017-2 DAVERAT C., LI Y., PABIOUT H., MÉNÉZO C., XIN S. **Transition to turbulent heat transfer in heated vertical channel – Experimental analysis** – *International Journal of Thermal Sciences* 111 (2017) 321- 329

ACL-2017-3 DAVERAT C., LI Y., PABIOUT H., MÉNÉZO C., XIN S. **Transition to turbulent heat transfer in heated vertical channel Scaling analysis** - *International Journal of Thermal Sciences* 112 (2017) 199- 210

ACL-2017-4 ONDARTS M., HAJJI W., OUTIN J., BÉJAT T., GONZE E., **Non-Thermal Plasma for indoor air treatment: Toluene degradation in a corona discharge at ppbv levels**, *Chemical Engineering Research and Design*, 118 (2017) 194-205

ACL-2017-5 MERLIN G., BOILEAU H. **Eco-efficiency and entropy generation evaluation based on energy analysis: Application to two small biogas plants**, *Journal of Cleaner Production*, 143 (2017) 257–268

ACL-2017-6 ROUCHIER S., BUSSET T., PAILHA M., PIOT A., WOLOSZYN M., **Hygric characterization of wood fiber insulation under uncertainty with dynamic measurements and Markov Chain Monte-Carlo algorithm**, *Building and Environment* 114 (2017) 129-139

ACL-2017-7 GAUR A., MENEZO C., GIROUX J. **Numerical studies on thermal and electrical performance of a fully wetted absorber PVT collector with PCM as a storage medium**. *Renewable Energy* 109 (2017) 168-187

ACL-2017-8 EL-NABOUCH R., BUI Q.B., PLÉ O., PERROTIN P., **Assessing the in-plane seismic performance of rammed earth walls by using horizontal loading tests**, *Engineering Structures* 145 (2017) 153-161

ACL-2017-9 ARRIGONI A., GRILLET A.C., PELOSATO R., DOTELLI G., BECKETT C.T.S., WOŁOSZYN M., CIANCIO D., **Reduction of rammed earth's hygroscopic performance under stabilisation : an experimental investigation**, *Building and environment*, 115 (2017).358–367

ACL-2017-10 GASPARIN S., BERGER J., DUTYKH D., MENDES N., **Stable explicit schemes for simulation of nonlinear moisture transfer in porous materials**, *Journal of building Performance Simulation*, (2017),doi: 10.1080/19401493.2017.1298669

ACL-2017-11 BERGER J., GASPARIN S., DUTYKH D., MENDES N., **Accurate numerical simulation of moisture front in porous material**, *Building and Environment*, (2017) doi:10.1016/j.buildenv.2017.03.016

ACL-2017-12 RIYONO W.A., VINCENS E., PLASSIARD J.-P., **A hierarchical elasto-plastic constitutive model for rammed earth**, *Construction and Building Materials*, 160 (2018), 351-364

ACL-2017-13 ESENCE T., BRUCH A., MOLINA S., STUTZ B., FOURMIGUÉ J.-F., **A review on experience feedback and numerical modeling of packed-bed thermal energy storage systems**, *Solar Energy* 153 (2017) 628–654

ACL-2017-14 MICHEL B., LE PIERRÈS N., STUTZ B., **Performances of grooved plates falling film absorber**, *Energy* 138 (2017) 103-117

ACL-2017-15 AGBOSSOU A., SOUYRI B., STUTZ B., **Modelling of helical coil heat exchangers for heat pump applications: Analysis of operating modes and distance between heat exchangers**, *Ap. Thermal Engineering*, (2017) doi.org/10.1016/j.applthermaleng.2017.10.089

ACL-2017-16 STUTZ B., LE PIERRES N., KUZNICK F., JOHANNES K., PALOMO DEL BARRIO E., BÉDÉCARRATS J.P., GIBOUT S., MARTY P., ZALEWSKI L., SOTO J., MAZET N., OLIVES R., BEZIAN J.J., MINH D P, **Storage of thermal solar energy**, *Comptes rendus - Physique* 18 (2017) pp. 401-414

ACL-2017-17 LE PIERRÈS N., HUAYLLA F., STUTZ B., PERRAUD J., **Long-term solar heat storage process by absorption with the KCOOH/H₂O couple: Experimental investigation**, *Energy*, 141 (2017) 1313-1323

ACL-2017-18 BUI Q. B., GRILLET A. C., TRAN H. D., **A Bamboo Treatment Procedure: Effects on the Durability and Mechanical Performance**, *Sustainability*, 9 (2017) 1444; doi:10.3390/su9091444

ACL-2017-19 NGUYEN D. M., GRILLET A-C., DIEP T.M.H., HA-THUC C.N., WOŁOSZYN M., **Hygrothermal properties of bio-insulation building materials based on bamboo fibers and bio-glues**, *Construction and Building Materials* 155:852-866 (2017) (DOI:10.1016/j.conbuildmat.2017.08.075)

ACL-2017-20 FRAISSE G., SOUYRI B., AXAOPoulos I., ROUCHIER S., **Decision-making based on network visualization applied to building life cycle optimization**, *Sustainable Cities and Society*, 35 (2017) 565-573

ACL-2017-21 FERRIER E., AGBOSSOU A., **Temperature effects on the shear capacity of external bonded fiber reinforced polymer on concrete**, *Construction and Building Materials*, 152 (2017) 333-344 (doi.org/10.1016/j.conbuildmat.2017.07.002)

ACL-2017-22 BERGER J., BUSSER T., DUTYKH D., MENDES N., **On the estimation of moisture permeability and advection coefficients of a wood fibre material using the optimal experiment design approach**, *Experimental Thermal and Fluid Science* 90 (Supplement C) (2017) 246–259,

ACL-2017-23 MAZUROSKI W., BERGER J., OLIVEIRA R.C.L.F., MENDES N., **An artificial intelligence based method to efficiently bring CFD to building simulation**, *Journal of Building Performance Simulation* 11 (5) (2017) 588-603

ACL-2017-24 BERGER J., MAZUROSKI W., OLIVEIRA R.C.L.F., MENDES N., **Intelligent co-simulation: neural network vs. proper orthogonal decomposition applied to a 2D diffusive problem**, *Journal of Building Performance Simulation* 11 (5) (2017) 568-587

ACL-2017-25 BERGER J., GASPARIN S., DUTYKH D., MENDES N., **On the solution of coupled heat and moisture transport in porous material**, *Transport Porous Media* 0 (0) (2017) 1–38,

ACL-2017-26 GASPARIN S., BERGER J., DUTYKH D., MENDES N., **An improved explicit scheme for whole-building hygrothermal simulation**, *Building Simulation* (2017) doi:10.1007/s12273-017-0419-30 (0) pp. 1–17,2017

ACL-2017-27 CHHAY M., DUTYKH D., GISCLON M., BUYER-QUIL C., **New asymptotic heat transfer model in thin liquid films** *Appl. Math. Modelling* 48 (2017) 844-859

ACL-2017-28 ATTIA S., ELEFTHERIOUB P., XENIB F., MORLOT R., MÉNÉZO C., KOSTOPOULOS V., BETSI M., KALAITZOGLOU I., PAGLIANO L., CELLURA M., ALMEIDA M., FERREIRAH M., BARACUI T., BADESCUI V., CRUTESCU R., HIDALGO-BETANZOSK J.M., **Overview and future challenges of nearly zero energy buildings(nZEB) design in Southern Europe**. *Energy and Buildings* 155 (2017) 439–458

ACL-2017-29 HUREL N., PAILHA M., GARNIER G., WOŁOSZYN M., Impact of different construction details on air permeability of timber frame wall assemblies: Some experimental evidences from a three-scale laboratory study, *Journal of Building Physics* 41 (2) (2017) 162-189

2018 (42)

ACL-2018-1 CHEN L., ONDARTS M., OUTIN J., GONTHIER Y., GONZE E. Catalytic decomposition performance for O₃ and NO₂ in humid indoor air on a MnO_x/Al₂O₃ catalyst modified by a cost-effective chemical grafting method, *Journal of Environmental Sciences*, 343 (2018) 163-172

ACL-2018-2 EL-NABOUCH R., PASTOR J., BUI Q-B., PLÉ O. Limit analysis, rammed earth material and Casagrande test, *Compte Rendu Mecanique*, 346 (2018) 98-109.

ACL-2018-3 RYONO W.A., VINCENS E., PLASSIARD J.P. A hierarchical elasto-plastic constitutive model for rammed earth. *Construction and Building Materials*, 160 (2018) 351-364

ACL-2018-4 ARALDI E., VINCENS E., FABBRI A., PLASSIARD J. P., Identification of the mechanical behaviour of rammed earth including water content influence. *Materials and Structures*, 51(4) (2018) 88.

ACL-2018-5 BUSSET T., BERGER J., PIOT A., PAILHA M., WOŁOSZYN M., Dynamic experimental method for identification of hygric parameters of a hygroscopic material. *Building and Environment*. 131 (2018) 197-209.

ACL-2018-6 EL-NABOUCH R., BUI Q.B., PLÉ O., PERROTIN P. Characterizing the shear parameters of rammed earth material by using a full-scale direct shear box *Construction and Building Materials* 171 (2018) 414-420

ACL-2018-7 TRAN M.T., BUI Q.B., SENTOSA B., NGUYEN N.T., DUONG T.H., PLÉ O. Sustainable RC Beam-Column Connections with Headed Bars: A Formula for Shear Strength Evaluation *Sustainability* 10 (2) (2018) 401

ACL-2018-8 ROUCHIER S., RABOUILLE M., OBERLÉ P. Calibration of simplified building energy models for parameter estimation and forecasting: stochastic versus deterministic modelling, *Building and Environment*, 134, (2018) 181-190

ACL-2018-9 ROUCHIER S Solving inverse problems in building physics: An overview of guidelines for a careful and optimal use of data, *Energy and Buildings*, 166 (2018) 178-195

ACL-2018-10 BELLEVILLE P., GUILLET F., PONS A., DESEURE J., MERLIN G., DRUARD F., RAMOUSSE J., GRINDLER E. Low voltage water electrolysis: decoupling hydrogen production using bioelectrochemical system. *International Journal of Hydrogen Energy*, 43 (2018) 14867-14875

ACL-2018-11 RAMOUSSE J., Ternary diagram of bithermal systems, *International Journal of Thermodynamics*, 21 (1) (2018) 27-36,

ACL-2018-12 ARRIGONI A., BECKETT C.T.S., CIANCIO D., PELOSATO R., DOTElli G., GRILLET A.C. Rammed Earth incorporating Recycled Concrete Aggregate: a sustainable, resistant and breathable construction solution, *Resources, Conservation & Recycling* 137 (2018) 11–20

ACL-2018-13 BERGER J., LE MEUR H., DUTYKH D., NGUYEN D.M., GRILLET A.C. analysis and improvement of the VTT mold growth model: Application to bamboo fiberboard, *Building and Environment*, 138 (2018) 262-274

ACL-2018-14 NGUYEN D. M., GRILLET A.C., DIEP T.M.H., BUI Q.B., WOŁOSZYN M. Influence of thermo-pressing conditions on insulation materials from bamboo fibers and proteins based bone glue, *Industrial Crops & Products* 111 (2018) 834–845

ACL-2018-15 BERGER J., BUSSET T., DUTYKH D., MENDES N., On the estimation of sorption isotherm coefficients using the optimal experiment design approach, *Inverse Problems in Science and Engineering* (2018) doi: 10.1080/17415977.2018.1495720

ACL-2018-16 GASPARIN S., BERGER J., DUTYKH D., MENDES N., Solving nonlinear diffusive problems in buildings by means of Spectral Methods, *Journal of Building Performance Simulation* (2018) doi: 10.1080/19401493.2018.1458905

ACL-2018-17 GASPARIN S., BERGER J., DUTYKH D., MENDES N., Advanced Reduced-Order Models for Moisture Diffusion in Porous Media, *Transport in Porous Media* (2018) doi: 0.1007/s11242-018-1106-2

ACL-2018-18 BUSSET T., BERGER J., PIOT A., PAILHA M., WOŁOSZYN, M., Comparison of model numerical predictions of heat and moisture transfer in porous media with experimental observations at material and wall scales: an analysis of recent trends, *Drying Technology* 0 (2018) 1-18

ACL-2018-19 ONDARTS M., REINERT L., GUITTONNEAU S., BAUP S., DELPEUX S., LEVEQUE J-M., DUCLAUX L. Improving the adsorption kinetics of ibuprofen on an activated carbon fabric through ultrasound irradiation: simulation and experimental studies, *Chemical Engineering Journal* 343 (2018) 163-172

ACL-2018-20 VU C.C., WEISS J., PLÉ O., AMITRANO D.; VANDEMBROUCQ D., **Revisiting statistical size effects on compressive failure of heterogeneous materials, with a special focus on concrete**, *Journal of the Mechanics and Physics of Solids* 121 (2018) 47-70

ACL-2018-21 BELGHIAH C., MESSABHIA A., PLASSIARD J.P., GUENFOUD M., PLÉ O., PERROTIN P., **Experimental study of double-panel confined masonry walls under lateral loading**, *Journal of Building Engineering* 20 (2018) 531-543

ACL-2018-22 EL-NABOUCH R., BUI Q.B., PERROTIN P., PLÉ O., **Shear Parameters of Rammed Earth Material: Results from Different Approaches**, *Advances in Materials Science and Engineering* 2018 (2018) 1-9

ACL-2018-23. CARBAJO JIMÉNEZ P., LOUVET Y., FRAISSE G., VAJEN K., WURTZ E. **Experimental and dimensional study of the draining process in drainback solar thermal systems**. *Solar Energy* 174 (2018) 855-865

ACL-2018-24 FARCOT L., LE PIERRÈS N., MICHEL B., FOURMIGUÉ J.-F., PAPILLON P., **Numerical investigation of a continuous thermochemical heat storage reactor**, *Journal of Energy Storage* 20 (2018) 109-119

ACL-2018-25 ABDOU H., EMERIAULT F., PLÉ O., **New approach to describe hydro-mechanical phenomenon of suffusion: erosion, transport and deposition**, *European Journal of Environmental and Civil Engineering*, 22 (12) (2018) 1-19

ACL-2018-26 GUYOT G., SHERMAN M.H., WALKER I.S., **Smart ventilation energy and indoor air quality performance in residential buildings: A review**. *Energy and Buildings* 165 (2018) 416–430.

ACL-2018-27 GUYOT G., WALKER I.S., SHERMAN M.H., **Performance based approaches in standards and regulations for smart ventilation in residential buildings: a summary review**. *International Journal of Ventilation* 0 (2018) 1–17.

ACL-2018-28 NGUYEN D. M., GRILLET A.C., BUI Q.B., DIEP T.M.H., WOLOSZYN M. **Building bio-insulation materials based on bamboo powder and bio-binders**, *construction and building materials*, 186 (2018) 686-698

ACL-2018-29 RAMOUSSE J., GOUPIL C., **Chart for Thermoelectric Systems Operation Based on a Ternary Diagram for Bithermal Systems**, *Entropy*, 20 (2018) 666.

ACL-2018-30 GASPARIN S., BERGER J., DUTYKH D., MENDES N., **An adaptive simulation of nonlinear heat and moisture transfer as a boundary value problem**, *International Journal of Thermal Sciences* Volume 133, November 2018, Pages 120-139

ACL-2018-31 BERGER J., BUSSER T., DUTYKH D., MENDES N., **On the estimation of sorption isotherm coefficients using the optimal experiment design approach**, *Inverse Problems in Science and Engineering* 27 (6) (2018) 735-772

ACL-2018-32 AZAM M.-H., GUERNOUTI S., MUSY M., BERGER J., POULLAIN P., RODLER A., **A mixed POD-PGD approach to parametric thermal impervious soil modeling: Application to canyon streets**, *Sustainable Cities and Society* 42 (2018) 444–461,

ACL-2018-33 KOFMAN N., ROHLFS W., GALLAIRE F., SCHEID B., RUYSER-QUIL C. **Prediction of two-dimensional dripping onset of a liquid film under an inclined plane**, *Int. J. Multiphase Flow* 104 (2018) 286-293

ACL-2018-34 SENTOSA B., BUI Q.-B., PLE O., PLASSIARD J.-P., PERROTIN P.: "Assessing damage of beam column connection in RC structures from dynamic measurement results", *Structural Engineering International* (2018) doi.org/10.1080/10168664.2019.1581587

ACL-2018-35 BEN YOUSSEF W., MAATALLAH T., MÉNÉZO C., BEN NASRALLAH S. **Assessment viability of a concentrating photovoltaic/thermal-energy cogeneration system (CPV/T) with storage for a textile industry application**. *Solar Energy* 159 (2018) 841–851

ACL-2018-36 LI Y., PABIOUT H., MÉNÉZO C. **Unsteady heated vertical channel flow in a cavity**. *International Journal of Thermal Sciences* 125 (2018) 293–304

ACL-2018-37 ASSOA Y. B., GAILLARD L., MÉNÉZO C., NEGRI N., SAUZEDDE F. **Dynamic prediction of a building integrated photovoltaic system thermal behavior**. *Applied Energy*, 214, 15 (2018), 73-82

ACL-2018-38 DAHER D.H., GAILLARD L., AMARA M., MÉNÉZO C. **Impact of tropical desert maritime climate on the performance of a PV grid-connected power plant**, *Renewable Energy* 125 (2018) 729-737

ACL-2018-39 THEBAULT M., TIMCHENKO V., GIROUX S., REIZES J., MÉNÉZO C., **Impact of external temperature distribution on the convective mass flow rate in a vertical channel – A theoretical and experimental study**. *International Journal of Heat and Mass Transfer* 121 (2018) 1264-1272

ACL-2018-40 BEN YOUSSEF W., MAATALLAH T., MÉNÉZO C., BEN NASRALLAH S., **Modeling and optimization of a solar system based on concentrating photovoltaic/thermal collector**, *Solar Energy* 170 (2018) 301-313

ACL-2018-41 IMTIAZ H., KIM J.T., MÉNÉZO C. **Advances in solar thermal harvesting technology based on surface solar absorption collectors: A review**, *Solar Energy Materials and Solar Cells* (2018)

ACL-2018-42 HUREL N., FRESCHE M., PAILHA M., WOLOSZYN M. **Innovative use of fluorescein for the air path study within light-weight wall assemblies** *Experimental Thermal and Fluid Science*, 92 (2018) 69-88

2019 (janvier à juillet - 22)

ACL-2019-1 ESENCE T., BRUCH A., FOURMIGUÉ J.F., STUTZ B., **A versatile one-dimensional numerical model for packed-bed heat storage systems**, *Renewable Energy* 133 (2019) 190-204

ACL-2019-2 BELLEVILLE P., MERLIN G., RAMOUSSE J., DESEURE J., **Two-dimensional modelling of syntrophic glucose conversion in bioanodes for coulombic efficiency optimization**, *Bioresource Technology Reports*, 6 (2019) 15-25

ACL-2019-3 JUMABEKOVA A., BERGER J., DUTYKH D., LE MEUR H., FOUCQUIER A., PAILHA M., MÉNÉZO C., **An efficient numerical model for liquid water uptake in porous material and its parameter estimation**, *Numerical Heat Transfer, Part A: Application*, 75 (2) (2018) 110-136

ACL-2019-4 BERGER J., DUTYKH D., MENDES N., RYSBAIULY B., **A new model for simulating heat, air and moisture transport in porous building materials**, *International Journal of Heat and Mass Transfer*, 134 (2019) 1041-1060

ACL-2019-5 RICHARD G.L., GISCLON M., RUYER-QUIL C., VILA J.P. **Optimization of consistent two-equation models for thin films flows**, *Eur. J. Mech. B/Fluids*, 76 (2019) 7-25

ACL-2019-6 ROUCHIER S., JIMÉNEZ M.J., CASTAÑO S. **Sequential Monte Carlo for on-line parameter estimation of a lumped building energy model**, *Energy and Buildings*, 187 (2019) 86-94

ACL-2019-7 BUI Q.-B., BUI T.-T., EL-NABOUCH R., THAI D.-K., **Vertical rods as a seismic reinforcement technique for rammed earth walls: an assessment**, *Advances in Civil Engineering*, (2019) ID 1285937, 12 p.

ACL-2019-8 TAURINES K., GIROUX S., MÉNÉZO C. **Energy and thermal analysis of an innovative earth to air heat exchanger: experimental**, *Energy and Buildings*, 187 (2019) 1-15

ACL-2019-9 BILARDO M., FRAISSE G., PAILHA M., FABRIZIO E. **Modelling and performance analysis of a new concept of integral collector storage (ICS) with phase change material**. *Solar Energy*, 183 (2019) 425-440

ACL-2019-10 LE TELLIER M., BERRAH L., STUTZ B., AUDY J-F., BARNABÉ S. **Towards sustainable business parks: A literature review and a systemic model**, *Journal of Cleaner Production*, 216 (2019) 129-138

ACL-2019-11 BUSSET T., BERGER J., PIOT A., PAILHA M., WOŁOSZYN M. **Comparative study of three models for moisture transfer in hygroscopic materials** *Transport in Porous Media* 126 (2) (2019) 379-410

ACL-2019-12 BUSSET T., PAILHA M., PIOT A., WOŁOSZYN M. **Simultaneous hygrothermal performance assessment of an air volume and surrounding highly hygroscopic walls**. *Building and Environment* 148 (2019) 677-688

ACL-2019-13 FREITAS DUTRAL, FREITAS M.E., GRILLET A.C., MENDES N., WOŁOSZYN M. **Microstructural characterization of porous clay-based ceramic composites**, *Materials* 12 (6) (2019) 946

ACL-2019-14 BERGER J., GUERNOUTI S., WOŁOSZYN M. **Evaluating model reduction methods for heat and mass transfer in porous materials: proper orthogonal decomposition and proper generalized decomposition**. *Journal of Porous Media* 22 (3) (2019) 3363-385

ACL-2019-15 HUAYLLA F., STUTZ B., LE PIERRES N., **Numerical and experimental analysis of falling-film exchangers used in a LiBr-H₂O interseasonal heat storage system**, *Heat Transfer Engineering*. Prévu pour publication dans le volume 40 (11) (2019), Published online: 22 mars 2018, <https://doi.org/10.1080/01457632.2018.1446850>.

ACL-2019-16 LEROUX G., MENDES N., STEPHAN L., LE PIERRES N., WURTZ E., **Innovative low-energy evaporation cooling system for buildings: study of the porous evaporator wall**, *Journal of Building Performance Simulation*, 12 (2) (2019) 208-223,

ACL-2019-17 LEROUX G., LE PIERRES N., STEPHAN L., WURTZ E., ANGER J., MORA L., **Pilot-scale experimental study of an innovative low-energy and low-cost cooling system for buildings**, *Applied Thermal Engineering*, Available online 19 April 2019, <https://doi.org/10.1016/j.applthermaleng.2019.04.075>.

ACL-2019-18 GASPARIN S., BERGER J., DUTYKH D., MENDES N., **An innovative method to determine optimum insulation thickness based on non-uniform adaptive moving grid**, *Braz. Soc. Mech. Sci. Eng.*, 41 (2019) 173. <https://doi.org/10.1007/s40430-019-1670-6>

ACL-2019-19 VU C.C., AMITRANO D., PLÉ O., WEISS J., **Compressive failure as a critical transition: Experimental evidence and mapping onto the universality class of depinning**, *Phys. Rev. Lett.* 122 (2019) 1-9

ACL-2019-20 [BELLEVILLE P.](#), [MERLIN G.](#), [RAMOUSSE J.](#), [DESEURE J.](#), **Two-dimensional modelling of syntrophic glucose conversion in bioanodes for coulombic efficiency optimization**, *Bioresource Technology Reports*, 6 (2019) 15-25

ACL-2019-21 [COPEREY A.](#), [REVIL A.](#), [ABDULSAMAD F.](#), [STUTZ B.](#), [DUVILLARD P. A.](#), [RAVANEL L.](#) **Low-Frequency Induced Polarization of Porous Media Undergoing Freezing: Preliminary Observations and Modeling**, *Journal of Geophysical Research: Solid Earth*, <https://doi.org/10.1029/2018JB017015>

ACL-2019-22 [ESENCE T.](#), [DESRUES T.](#), [FOURMIGUÉ J.F.](#), [CWICKLINSKI G.](#), [BRUCH A.](#), [STUTZ B.](#), **Experimental study and numerical modelling of high temperature gas/solid packed-bed heat storage systems**, *Energy* 180 (2019) 61-78

ACL-2019-23 [M. THEBAULT](#), [S. GIROUX-JULIEN](#), [V. TIMCHENKO](#), [C. MENEZO](#), [J. REIZES](#) **Detailed flow development and indicators of transition in a natural convection flow in a vertical channel**, *International Journal of Heat and Mass Transfer* 143, 2019

ACL-2019-24 [BOB SENTOSA](#), [QB BUI](#), [O PLE](#), [JP PLASSIARD](#), [P PERROTIN](#), **Assessing Damage to Beam–Column Connections in Reinforced Concrete Structures from Vibrational Measurement Results**, *Structural Engineering International*, 1-8, - 2019

ACL-2019-25 [R EL NABOUCH](#), [QB BUI](#), [O PLÉ](#), [P PERROTIN](#), **Rammed earth under horizontal loadings: Proposition of limit states**, *Construction and Building Materials* 220, 238-244 – 2019

ACL-2019-26 [P CHAUHAN](#), [A EL HAJJAR](#), [N PRIME](#), [O PLÉ](#), **Unsaturated behavior of rammed earth: Experimentation towards numerical modelling**, *Construction and Building Materials* 227, 116646 – 2019

Articles de revue (nombre total = 5)

Parmi les articles ci-dessus, 5 articles suivants sont des revues bibliographiques

ACL-2016-19 [BERGER J.](#), [MENDES N.](#), [GUERNOUTI S.](#), [M.](#), [CHINESTA F.](#), **Review of Reduced Order Models for Heat and Moisture Transfer in Building Physics with WOŁOSZYN Emphasis in PGD Approaches**, *Archives of Computational Methods in Engineering*, 24 (3) (2016) 655-667

ACL-2017-28 [ATTIA S.](#), [ELEFTHERIOUB P.](#), [XENIB F.](#), [MORLOT R.](#), [MÉNÉZO C.](#), [KOSTOPOULOS V.](#), [BETSI M.](#), [KALAITZOGLOU I.](#), [PAGLIANO L.](#), [CELLURA M.](#), [ALMEIDA M.](#), [FERREIRAH M.](#), [BARACUI T.](#), [BADESCUI V.](#), [CRUTESCUJ R.](#), [HIDALGO-BETANZOSK J.M.](#) **Overview and future challenges of nearly zero energy buildings(nZEB) design in Southern Europe**. *Energy and Buildings* 155 (2017) 439–458

ACL-2018-18 [BUSSET T.](#), [BERGER J.](#), [PIOT A.](#), [PAILHA M.](#) [WOŁOSZYN](#), [M..](#), **Comparison of model numerical predictions of heat and moisture transfer in porous media with experimental observations at material and wall scales: an analysis of recent trends**, *Drying Technology* 0 (2018) 1-18

ACL-2018-26 [GUYOT G.](#), [SHERMAN M.H.](#), [WALKER I.S.](#), **Smart ventilation energy and indoor air quality performance in residential buildings: A review**. *Energy and Buildings* 165 (2018) 416–430.

ACL-2018-27 [GUYOT G.](#), [WALKER I.S.](#), [SHERMAN M.H.](#), **Performance based approaches in standards and regulations for smart ventilation in residential buildings: a summary review**. *International Journal of Ventilation* 0 (2018) 1–17.

Autres articles (nombre total = 5)

Autres articles (articles publiés dans des revues professionnelles ou techniques, etc.), non incluses si-dessus.

ACLN-2014-1 [BUI Q.B.](#), [MOMMESSIN M.](#), [PERROTIN P.](#), [PLE O.](#), **Évaluation des endommagements à l'échelle locale des portiques en béton armé par mesures dynamiques Partie 3–Structures & Monitoring**. *Les Annales du BTP*, (2014) .

ACLN-2016-1 [BUI Q.B.](#), [MOREL J C](#), [TRAN V H](#), [HANS S](#), [OGGERO M](#). **How to use in-situ soils as building materials**, *Procedia Engineering* 145 (2016) 1119-1126.

ACLN-2016-2 [HAJJI W.](#), [ONDARTS M.](#), [OUTIN J.](#), [BÉJAT T.](#), [E. GONZE](#), **Combination of non-thermal plasma and adsorption for indoor air treatment**, *Pollution atmosphérique*, 231 – 232 (2016) 73-83

ACLN-2016-3 [EL-NABOUCH R.](#), [BUI Q.B.](#), [PLÉ O.](#), [PERROTIN P.](#), [POINARD C.](#), [GOLDIN T.](#), [PLASSIARD J.P.](#) **Seismic assessment of rammed earth walls using pushover tests**, *Procedia Engineering* 145 (2016) 1185-1192.

ACLN-2018-1 [PLASSIARD J.-P.](#), [PLE O.](#), [PERROTIN P.](#), **Repair of a masonry wall with an innovative cement based composite** , CICE 2018, ENPC, Paris, France.

ACLN-2018-2 AIANE M., RAMOUSSE J., BOUYAUD M., BOUDARD E., STUTZ B., **Etude du comportement dynamique d'un système de climatisation par absorption pour l'automobile**, *Revue générale du Froid*, (2018)

2- Ouvrages

Ouvrage - Direction et coordination d'ouvrages scientifiques / édition scientifique - (nombre total = 1)

OS-2018-1 MERLIN G., MENEZO C., **Ingénierie bio-inspirée, Principes et transition énergétique**. Coll Technosup, Eds ELLIPSES, 238 p., mai 2018, Paris. ISBN : 9782340-024342

Chapitres d'ouvrage (nombre total = 11)

OS-2015-1 PASTOR F, KONDO D, PASTOR J. **Limit Analysis and macroscopic strength of porous materials with Coulomb matrix**, in Direct Methods for Limit and Shakedown Analysis of Structures, Advanced Computational Algorithms and Material Modelling (Series: Solid Mechanics and Its Applications, Vol. 220), ed A. Pisano, P. Fuschi et D. Weichert, Springer, (2015), ISBN 978-3-319-12928-0

OS-2015-2 WOLOSZYN M., **Ch 5.4. Transferts de chaleur et de masse par évaporation**, dans *Transferts thermiques : initiation et approfondissement*, Paris, Lavoisier, (2015).

OS-2015-3 LUO L., LE PIERRES N., **Systems and materials for thermal storage of solar energy** dans Energy Science and Technology Vol. 5: Solar Engineering - 1 (Applications), ed SRI SIVAKUMAR, UMESH CHANDRA SHARMA, RAM PRASAD, exe. Ed: J.N. Govil, (12 Vol.), Studium Press LLC, Houston, USA, (2015), ISBN: 978-1-626990-66-1,

OS-2015-4 LUO L., LE PIERRES N., **Chapter 3 : Innovative Systems for Storage of Thermal Solar Energy in Buildings** dans Solar Energy Storage p. 27-62, ed BENT SØRENSEN, Academic Press (Elsevier Ltd), (2015), ISBN: 978-0-12-409540-3

OS-2016-1 FRAISSE G., **Chapitre 5 : Systèmes thermiques, Énergétique des bâtiments et simulation thermique, Ouvrage collectif**, Editions Eyrolles, Coordination : B. Peuportier, 2016, ISBN : 978-2-212-14275-4, 444 p.

OS-2016-2 WOLOSZYN.M., **Chapitre I.4. Transferts hygrothermiques (P. 85-104).** *Energétique des bâtiments et simulation thermique. Ouvrage collectif*, Editions Eyrolles, Coordination : B. Peuportier, 2016, ISBN : 978-2-212-14275-4, 444 p.

OS-2016-3 GUIAVARCH A., MENEZO C., **Chapitre 6: Systèmes Photovoltaïques, Énergétique des bâtiments et simulation thermique, Ouvrage collectif**, Ouvrage collectif, Editions Eyrolles, Coordination : B. Peuportier, 2016, ISBN : 978-2-212-14275-4, 444 p.

OS-2016-4 VINCENS E., PLASSIARD J.-P., FRY J.J., **Chapter 2: Rockfill dams with dry masonry, Dry Stone retaining structures**, ISTE Press, Coordination: F. Darve, 2016, ISBN : 978-1-78548-080-5 162p

OS-2016-5 B.STUTZ, **Nucléation Les changements de phase solide-liquide-vapeur Tome 1 Fondements et applications**, CNRS Alpha, Coordination: Hervé COMBEAU, Lounès TADRIST, 2016, ISBN : 978-2-271-07735-6 p. 442

OS-2017-1 LE PIERRES **Chapter 43-1: Seasonal storage system of solar energy for house heating by absorption technology** in Handbook of Energy Systems in Green Buildings, ed. Wang R. Z., Zhai X. Q, Springer-Verlag, GmbH Germany, Berlin (2017) ISBN: 978-3-662-49088-4

OS-2018-2 MENEZO C. (contribution). **Case Studies – Adaptive Facade Network** (Open Access) ISBN 978-94-6366-110-2. (2018) TU Delft Open - http://tu1403.eu/wp-content/uploads/Vol-3-1_for-web-Open-Access-9789463661102.pdf

3- Production dans des colloques / congrès, séminaires de recherche

Éditions d'actes de colloques / congrès

Articles publiés dans des actes de colloques / congrès international (nombre total = 127)

2014 (18)

ACTI-2014-1 CAP J.F., STUTZ B., HUAYLLA F., **Model of H₂O/LiBr absorption machine using falling films**, *EuroSun conference*, 16 – 19 September 2014, Aix-les-Bains, France

- ACTI-2014-2** MERLIN G., BOILEAU H., **Eco-efficiency of agricultural biogas plants based on energy analysis**. *Franco-Chinese Workshop on Processes for Energy and Environmental Issues*, June 12–13 2014, Albi, France
- ACTI-2014-3** LAZRAK A., FRAISSE G., LECONTE A., PAPILLON P., SOUYRI B., **Towards a generic methodology to model solar thermal systems using neural networks through a short dynamic test**, *EUROSUN*, 16-19 septembre 2014, Aix-les-Bains, France
- ACTI-2014-4** LAZRAK A., LECONTE A., PAPILLON P., SOUYRI B., FRAISSE G. **A solar combisystem input-output modelling : exploration of several algorithms and learning procedures**. *1er Colloque franco-marocain sur les énergies nouvelles et renouvelables (COFMER'01)*, 28-30 Octobre 2014, Rabat, Maroc
- ACTI-2014-5** KEDOWIDE Y.A., WOLOSZYN M., PIOT A., LE PIERRES N., BEJAT T., **Experimental investigations of highly hygroscopic and vapour permeable walls exposed to real climate**, *Nordic Symposium on Building Physics*, 15-19 juin 2014, Lund, Suède
- ACTI-2014-6** PASTOR J., PASTOR F., KONDO D., **Mixed method of Limit Analysis and axisymmetric problems: validation and new results for porous Coulomb materials**, in « *Direct methods and constitutive modeling for plastic design by analysis* », *11th. World Congress on Computational Mechanics (WCCM2014)*, July 20-25, Barcelona, Spain.
- ACTI-2014-7** ANOUKOU K., PASTOR F., KONDO D., PASTOR J., **Theoretical and numerical limit analysis of porous materials with Coulomb matrix**, *14th European Mechanics of Materials Conference - EMMC14*, août 2014, Gothenburg, Suède
- ACTI-2014-8** MAHMUTOVIC D., MONNET J., LORET B., PLÉ O., PELIZZARI B., BOUTONNIER L., LAI B., **A model for weakly unsaturated soils taking into account the three phases (air, water and soil)**, *6th International (UNSAT 2014)*, 2-4 July 2014, Sydney, Australia, <https://www.taylorfrancis.com/books/9781315749587/chapters/10.1201/b17034-45>
- ACTI-2014-9** PELIZZARI B., MONNET J., LORET B., MAHMUTOVIC D., PLÉ O., BOUTONNIER L., DAÏAN J.-F., **Physical effects of liquid-vapor water transition in unsaturated soils**, *6th International (UNSAT 2014)*, 2-4 July 2014, Sydney, Australia, <https://www.taylorfrancis.com/books/9781315749587/chapters/10.1201/b17034-21>
- ACTI-2014-10** MENEZO C., GIROUX-JULIEN S., TIMCHENKO V., FOSSA M., **Natural convection in an open-ended channel under staggered thermal boundary conditions. Application to the control of the free cooling in photovoltaic doubleskin facades**, *15th International Heat Transfer Conference IHTC-15*, 10-15 Aug. 2014, Kyoto, Japan
- ACTI-2014-11** SALORT J., PABIOUT H., CHILLA F., MENEZO C., **Cross-ventilation measurements in buildings: small and full scales experimental models**, *15th International Heat Transfer Conference IHTC-15*, 10-15 Aug. 2014, Kyoto, Japan
- ACTI-2014-12** DAVERAT C., LI Y., PABIOUT H., MENEZO C., XIN S., **Natural convection in an open vertical channel with heated walls at high rayleigh number**, *15th International Heat Transfer Conference IHTC-15*, 10-15 Aug. 2014, Kyoto, Japan
- ACTI-2014-13** HAURANT P., MÉNÉZO C., DUPEYRAT P., **Modeling of a hybrid photovoltaic-thermal component**, *EUROSUN*, 16-19 sept.2014, Aix-les-bains, France
- ACTI-2014-14** DUPEYRAT P., HAURANT P., MÉNÉZO C., **12-Months long monitoring of a hybrid photovoltaic-thermal component integrated in a domestic hot water system**, *EUROSUN*, 16-19 sept 2014, Aix-les-bains, France
- ACTI-2014-15** MATURI L., ASSOA Y.B., GAILLARD L., MOSER D., KRONTHALER L., GUIOT T., MÉNÉZO C., BOILLOT B., SAUZEDDE F., **Thermal response of building integrated photovoltaic systems: analysis of monitoring data from installations at three sites in Europe**, *EU PVSEC*, 22-26 sept 2014, Amsterdam, Netherlands
- ACTI-2014-16** BELLEUDY C., KAYELLO A., WOLOSZYN M., GE H., FAZIO P., CHHAY M., QUENARD D., **A heat-airflow model for simulating the effects of air leakage on the temperature field in porous insulation**, *10th Nordic Symposium on Building Physics NSB 2014 (proc. 79-85)*, 15-19 June 2014, Lund, Sweden
- ACTI-2014-17** BERGER J., TASCA-GUERNOUTI S., WOLOSZYN M., CHHAY M. **Towards efficient numerical modelling of hygrothermal transfers using Proper General Decomposition**. *10th Nordic Symposium on Building Physics NSB 2014*, 15-19 June 2014, Lund, Sweden
- ACTI-2014-18** FOUQUET M., LEBERT A., LASVAUX S., PEUPORTIER B., ROUX C., GUIOT T., BUHÉ C., SOUYRI B., **Illustration of methodological challenges in energy and environmental assessment of buildings**, *World SB14 Barcelona conference*, Octobre 2014, Barcelone, Spain

2015 (29)

- ACTI-2015-1** BUI Q.B., MOREL J.C., **The creep of rammed earth material**, *ICREC 2015*, CRC Press, Taylor & Francis, ISBN: 978-1-138-02770-1, 12-13 February 2015, Perth, Australia
- ACTI-2015-2** BUI Q.B., BUI T.T., LIMAM A., MOREL J.C., **Discrete element modeling of rammed earth walls**, *ICREC 2015*, CRC Press, Taylor & Francis, ISBN: 978-1-138-02770-1, 12-13 February 2015, Perth, Australia

ACTI-2015-3 Soudani L., Fabbri A, Chabriac P.A., Morel J.C., Wołoszyn M., Grillet A.C., **On the relevance of neglecting the mass vapour variation for modelling the hygrothermal behaviour of rammed earth**, ICREC 2015, CRC Press, Taylor & Francis, ISBN: 978-1-138-02770-1, 12-13 February 2015, Perth, Australia

ACTI-2015-4 Wołoszyn M., Grillet A.C., Soudani L., Morel J.C., Fabbri A., **Potential of existing whole-building simulation tools to assess hygrothermal performance of rammed earth construction**, ICREC 2015, CRC Press, Taylor & Francis, ISBN: 978-1-138-02770-1, 12-13 February 2015, Perth, Australia

ACTI-2015-5 Sentosa B.O.B., Bui Q.B., Plassiard J.P., Plé O., Perrotin P., **Assessing the column-beam connection's damages by vibrational tests: experimental and analytical studies**, CIGOS 2015, May 11-12 2015, Cachan, France.

ACTI-2015-6 El-Nabouche R., Bui Q.B., Perrotin P., Plé O., Plassiard J.P., **Numerical modeling of rammed earth constructions: analysis and recommendations**, 1st International Conference on Bio-based Building Materials, June 21-24 2015, Clermont-Ferrand, France

ACTI-2015-7 Tran V.H., Morel J.C., Bui Q.B., Hans S., Oggero M., **Sustainable building with local material: a case study**, 1st International Conference on Bio-based Building Materials, June 21-24 2015, Clermont-Ferrand, France

ACTI-2015-8 Anoukou K., Pastor F., Dufrenoy P., Pastor J., Kondo D. **Porous materials with Mohr-Coulomb matrix: theoretical investigation and numerical validation**, Fourth International Conference on Computational Modeling of Fracture and Failure of Materials and Structures, 3-5 June 2015, Cachan, France.

ACTI-2015-9 Anoukou K., Pastor F., Dufrenoy P., Pastor J., Kondo D. **Limit analysis and homogenization of porous materials with Mohr-Coulomb matrix: theoretical formulation and numerical validation**, 9th European Solid Mechanics Conference, 6-10 July 2015, Madrid, Spain.

ACTI-2015-10 Shahriari M., Sauce G., Buhe C., Boileau H., **Construction project failure due to uncertainties – A case study** International Symposium on Occupational Hygiene and Safety, 1-13 February 2015, Guimaraes, Portugal.

ACTI-2015-11 Huaylla F., Le Pierrès N., Stutz B., **Numerical and experimental analysis of an absorption reactor using LiBr/H₂O for solar heat long-term storage**, ECCE10 (10th European Congress of Chemical Engineering), 27 septembre-1er octobre 2015, Nice, France.

ACTI-2015-12 Leroux G., Stephan L., Le Pierrès N., Wurtz E., Mendes N., **Experimental and numerical analysis of water transfer through a porous tank for a new evaporative cooling system**, BS2015 (Building Simulation Conference 2015), 7-9 décembre 2015, Hyderabad, Inde

ACTI-2015-13 Belleudy C., Wołoszyn M., Cosnier M., **Detailed numerical modelling of moist air flow through a complex airtightness defect**, 36th AIVC Conference (DOI: 10.13140/RG.2.1.1713.4803), September 2015, Madrid,

ACTI-2015-14 Monnet J., Plé O., Nguyen D.M., **Numerical and Experimental study of the erosion of the Isère river loam with the Cross Erosion Test (CET)**, XVI European Conference on Soil Mechanics and Geotechnical Engineering, 13-17 September 2015, Edinburg, England,

ACTI-2015-15 Nguyen D.M., Grillet A.C., Hanh D.T.M., Wołoszyn M., **Bamboo panels to control moisture level of buildings**, 1st International Conference on Bio-based Building Materials, June 21-24 2015, Clermont-Ferrand, France

ACTI-2015-16 Hurel N., Sherman M.H., Walker I.S., **Simplified Methods for Combining Natural and Mechanical Ventilation**, 36th AIVC Conference, 2015, Madrid, Spain

ACTI-2015-17 Perier-Muzet M., Sid B., Béjat T., Wołoszyn M., **Evaluation of the contribution of highly hygroscopic and vapour permeable walls to whole building performance**, BS2015 (Building Simulation Conference 2015), 7-9 décembre 2015, Hyderabad, Inde

ACTI-2015-18 Stefanoiu A.M., Parys W., Wołoszyn M., Wurtz E., Jay A., 2015. **Robustness assessment of a near zero energy dwelling for varying occupant behaviour**. BS2015 (Building Simulation Conference 2015), 7-9 décembre 2015, Hyderabad, Inde

ACTI-2015-19 S. Rouchier, M. Wołoszyn, T. Bejat. 2015. **Identification of envelope hygrothermal properties based on in-situ sensor measurements and stochastic inverse methods**. 6th International Building Physics Conference (IBPC) (Energy Procedia), 2015, Turin, Italie.

ACTI-2015-20 Rafidiarison H., Kedowide Y., Wołoszyn M., Bejat T., Rémond R., Mougel E., Perier-Muzet M., **Cross-comparison of measured behavior of highly hygroscopic and vapor permeable walls exposed to different real climates**. 6th International Building Physics Conference (IBPC) (Energy Procedia), 2015, Turin, Italie.

ACTI-2015-21 Stefanoiu A.M., Wołoszyn M., Jay A., Wurtz E., Buhé C., **A methodology to assess the ambient temperature of a building using a limited number of sensors**. 6th International Building Physics Conference (IBPC) (Energy Procedia), 2015, Turin, Italie.

ACTI-2015-22 LaZrak A., Fraissee G., Leconte A., Souyri B., Papillon P., **Energy consumption estimation in different**

climate fo a solar combisystem combined to an absorption chiller, ISES Solar World Congress 2015, 8 – 12 November 2015, Daegu, Korea

ACTI-2015-23 HAJJI W., ONDARTS M., OUTIN J., GONZE E., Abatement of low-concentration of formaldehyde and toluene in indoor air using dc corona discharge plasma coupled with adsorbent, 10th European Congress of Chemical Engineering, September 27th - October 1st 2015, Nice, France.

ACTI-2015-24 VAN HELDEN W., YAMAHA M., RATHGEBER C., HAUER A., HUAYLLA F., LE PIERRÈS N., STUTZ B., METTE B., DOLADO P., LAZARO A., MAZO J., DANNEMAND M., FURBO S., CAMPOS-CELADOR A., DIARCE G., CUYPERS R., KÖNIG-HAAGEN A., HÖHLEIN S., BRÜGGEMANN D., FUMEY B., WEBER R., KÖLL R., WAGNER W., DAGUENET-FRICK X., GANTENBEIN P., KUZNICK F., IEA SHC Task 42 / ECES Annex 29 – Working Group B: Applications of Compact Thermal Energy Storage, Solar Heating and Cooling for Buildings and Industry conference (SHC2015), 2-4 décembre 2015, Istanbul, Turquie.

ACTI-2015-25 NEYA I., RAMOUSSE J., PERIER-MUZET M., Entropy analysis of water/water thermoelectric heat pumps: design considerations. 28th international conference on Efficiency, cost, optimization, simulation and environmental impact of energy systems (ECOS2015), June 30-July 3 2015, Pau, France.

ACTI-2015-26 FÉNIÈS G., RAMOUSSE J., FORMOSA F., BADEL A., Energy and exergy analysis of a free piston Stirling engine. 28th international conference on Efficiency, cost, optimization, simulation and environmental impact of energy systems (ECOS2015), June 30-July 3 2015, Pau, France.

ACTI-2015-27 FÉNIÈS G., FORMOSA F., RAMOUSSE J., BADEL A., Equivalent Electrical Modeling Approach of a Free Piston Stirling Engine, 28th international conference on Efficiency, cost, optimization, simulation and environmental impact of energy systems (ECOS2015), June 30-July 3 2015, Pau, France.

ACTI-2015-28 BELLEVILLE P., RAMOUSSE J., DESEURE J., MERLIN G., Theoretical biofilm model to represent interspecies segregation, ISMET 2015, 1-4 October 2015, Tempe, USA

ACTI-2015-29 PERIER-MUZET M., BÉJEAT T., WOŁOSZYN M., KEDOWIDE Y., BUHÉ C., WURTZ E Evaluation of the Contribution of Highly Hygroscopic and Vapour Permeable Walls to Whole Building IBPSA, Building Simulation, 7-9 december 2015, Hyderabad, India

2016 (21)

ACTI-2016-1 EL-NABOUCH R., BUI Q.B., PLÉ O., PERROTIN P., POINARD C., GOLDIN T., PLASSIARD J.P., Seismic assessment of rammed earth walls using pushover tests, International Conference on Sustainable Design, Engineering and Construction, (paper 326), May 18-20 2016, Tempe, USA.

ACTI-2016-2 BUI Q.B., MOREL J.C., TRAN V.H., HANS S., OGGERO M. How to use in-situ soils as building materials, International Conference on Sustainable Design, Engineering and Construction, (paper 312), May 18-20 2016, Tempe, USA.

ACTI-2016-3 PELIZZARI B., KONTOGIANNI A., SALAGER S., PLE O..Hydro-mechanical paths within unsaturated compacted soil framed through water retention surfaces, 3rd European Conference on Unsaturated Soils (E-UNSAT 2016), 12-14 sept.2016, École des Ponts ParisTech Cité Descartes, Champs-sur-Marne, Paris, France.,

ACTI-2016-4 DEHINA K., MEDJDOUB MOKHTARI A., SOUYRI B., numerical modeling of a refreshing buried tank, International Conference On Materials and Energy ICOME 2016, 17 – 20 mai 2016, La Rochelle, France,.

ACTI-2016-5 BELLEVILLE P., MERLIN G., RAMOUSSE J., DESEURE J., PICIOREANU C., Modelling multispecies glucose fed biofilm in MFC; EUISMET 2016, 26-28 September 2016, Rome Italy.

ACTI-2016-6 FRAISSE G., PAILHA M., New concept of Integrated Collector Storage using phase change material and thermosyphon heat pipes, EUROSUN, 11-14 October 2016, Palma (Mallorca), Spain

ACTI-2016-7 HUREL N., PAILHA M., GARNIER G., BELLEUDY C., WOŁOSZYN M., Contribution to the Wooden-Frame Wall Assemblies Airtightness Tests: a Three-scale Laboratory Study, 12th REHVA World Congress (CLIMA), (vol. 2), 2016, Aalborg, Denmark

ACTI-2016-8 HUREL N., PAILHA M., WOŁOSZYN M., Innovative use of fluorescein microparticles for the air path study through airtightness defects in timber frame wall assemblies, 14th International Conference of Indoor Air Quality and Climate (INDOOR AIR), 2016, Ghent, Belgium,

ACTI-2016-9 MICHEL B., FARÇOT L., LE PIERRES N., Thermodynamic analysis of thermochemical storage process using a multisalt open fixed bed reactor, ECOS 2016, 19-23 juin 2016, Portorož, Slovenia,

ACTI-2016-10 FARÇOT L., MICHEL B., LE PIERRES N., PAPILLON P., Numerical investigations of a continuous thermochemical heat storage reactor, ECOS 2016, 19-23 juin 2016, Portorož, Slovenia,

ACTI-2016-11 **BUSSER T.**, PIOT A., PAILHA M., BEJATT T., WOLOSZYN M., **From materials properties to modelling hygrothermal transfers of highly hygroscopic walls**, CESBP, 14-16 Septembre 2016, Dresde, Allemagne

ACTI-2016-12 **SOUUDANI L.**, FABBRI A., WOLOSZYN M., GRILLET A.C., MOREL J.C., **Energy evaluation of rammed earth wall with long term in situ measurements**, 12th REHVA World Congress (CLIMA), 2016 Aalborg, Denmark

ACTI-2016-13 **FREITAS DUTRA L.**, GRILLET A.C., MENDES N., WOLOSZYN M., **on the improvement of hygroscopic capacity of clay based materials**, MSSCE2016, 22-24 août 2016, Lyngby, Danemark

ACTI-2016-14 **ARRIGONI A.**, CIANCIO D., BECKETT C., DOTElli G., PELOSATO R., GRILLET A.C., **a new sustainable future for stabilised rammed earth?** 2016 EMi conference, 25-27 octobre 2016, Metz, France

ACTI-2016-15 RICHARD G. L., **BUYER-QUIL C.**, VILA J. P., **a three-equations model for thin films down an inclined plane**, XXIV ICTAM, 21-26 August 2016, Montreal, Canada

ACTI-2016-16 **KOFMAN N.**, **BUYER-QUIL C.**, MERGUI S., **sheared falling film flows: an experimental and numerical study**, XXIV ICTAM, 21-26 August 2016, Montreal, Canada

ACTI-2016-17 **GUYOT G.**, FERLAY J., GONZE E., WOLOSZYN M., PLANET P., BELLO T., **Experimental Study of Multizone Air Leakages in Low Energy Houses**, Defining Indoor Air Quality: Policy, Standards and Best Practices, 2016, Alexandria, VA, USA.

ACTI-2016-18 RIYONO W.A., VINCENS E., JP **PLASSIARD**, **Modelling the behavior of rammed earth structures**, TERRA 2016, Juillet 2016, Lyon, France

ACTI-2016-19 **LAYADI I.**, PLASSIARD J.P., PERROTIN P., PLE O., **MESSABHIA A.**, **Comportement mécanique des structures en béton armé avec remplissage en maçonnerie**, RUGC 2016, Mai 2016, Liège

ACTI-2016-20 **BELGHIAT C.**, PLASSIARD J.P., PERROTIN P., PLE O., GUENFOUD M., **MESSABHIA A.**, **Contribution à la modélisation dynamique de la maçonnerie chainée**, RUGC 2016, Mai 2016, Liège

ACTI-2016-21 **RISCH A.**, BERRAH L., BUHÉ C., WOLOSZYN M. AND CLIVILLÉ V. **Energy Efficiency Renovations in Residential Buildings: What Are the Key Variables in the Decision-Making? Evidence From France**. CLIMA2016 (Proceedings of the 12th REHVA World Congress 2016), May 2016, Aalborg, Denmark.

2017 (24)

ACTI-2017-1 **BUSSER T.**, PIOT A., PAILHA M., ROUCHIER S., WOLOSZYN M., **Experimental and numerical study of wood-based materials: from material to room scale**, 11th Nordic Symposium on Building Physics, NSB2017, 11-14 June 2017, Trondheim, Norway

ACTI-2017-2 **INDEKEU M.**, WOLOSZYN M., GRILLET A.C., **SOUUDANI L.**, FABBRI A. **Towards hygrothermal characterization of rammed earth with small-scale dynamic methods**, 11th Nordic Symposium on Building Physics, NSB2017, 11-14 June 2017, Trondheim, Norway

ACTI-2017-3 **BUI Q.-B.**, PRUD'HOMME E., **GRILLET A.-C.**, PRIME N. **An exploratory study on earthen materials stabilized by alkaline activator**, 2nd ICBBM and 1st EcoGRAFI, 21-23 june 2017, Clermont-Ferrand

ACTI-2017-4 **BUI Q.-B.**, **TRAN H.D.**, **GRILLET A.-C.**, **Assessing a method of bamboo treatment and its effect on durability and mechanical performance**, 2nd ICBBM and 1st EcoGRAFI, 21-23 june 2017, Clermont-Ferrand

ACTI-2017-5 **PAILHA M.**, **TASSET M.**, FRAISSE G., CLOET D., **Prototype of integrated collector storage using phase change material and thermosyphon heat pipes**, Solar World Congress 2017, 29 Oct.-2 Nov. 2017, Abu Dhabi,

ACTI-2017-6 **LI Y.**, PAILHA M., FRAISSE G., MÉNÉZO C., **Reversal flow in an inclined heated channel inside a closed cavity: application to integrated collector storage solar water heaters (ICSSWH)**. 7th International Symposium on Advances in Computational Heat Transfer (CHT-17), 28 May - 2 June 2017, Naples, Italie

ACTI-2017-7 **LI Y.**, PAILHA M., FRAISSE G., MENEZO C., **Ecoulement inverse dans un canal incliné et chauffé au sein d'une cavité fermée : application au capteur solaire autostockeur**. XIIIème Colloque Interuniversitaire Franco-Québécois sur la Thermique des Systèmes, 22-24 mai 2017, LUSAC, Saint-Lô, France

ACTI-2017-8 **EL-NABOUCH R.**, BUI Q.-B., PERROTIN P., O. PLÉ, **Experimental and numerical studies on cohesion and friction angle of rammed earth material**, 6th Biot conference on poromechanics, 9 – 13 July 2017, Champs-sur-Marne, France,

ACTI-2017-9 **VU C.C.**, WEISS J., **PLÉ O.**, AMITRANO D., **Statistical size effects on the mechanical behavior of concrete under uniaxial compression**, Fifth International Conference on Computational Modeling of Fracture and Failure of Materials and Structures, 14-16 June 2017., Nantes, France,

ACTI-2017-10 [SENTOSA B.](#), [BUI Q.-B.](#), [PLASSIARD J.-P.](#), [PLÉ O.](#), [PERROTIN P.](#), [PURNOMO H.](#), **Redistribution of moment at beam-column joints in RC structures: comparison between an experimental study and Eurocode 2**, *4th international conference CIGOS, 26-27 october 2017, Ho Chi Minh City University of Technology, Vietnam*

ACTI-2017-11 [VU C.C.](#), [WEISS J.](#), [PLÉ O.](#), [AMITRANO D.](#) **Statistical size effects on compressive strength and mechanical behavior of concrete**, *16th International Conference on Fracture and Damage Mechanics, 18-20th July 2017, Florence, Italy*

ACTI-2017-12 [BUI Q.B.](#), [EL-NABOUCH R.](#), [PERROTIN P.](#), [PLÉ O.](#), **Assessing a Nondestructive Method to Determine the Young's Modulus of Rammed Earth Material**, *6th Biot conference on poromechanics, 9 – 13 July 2017, Champs-sur-Marne, France*

ACTI-2017-13 [LE TELLIER M.](#), [BERRAH L.](#), [STUTZ B.](#), [BARNABÉ S.](#), [AUDY J.-F.](#), **From SCM to Eco-Industrial Park Management: Modelling Eco-Industrial Park's Symbiosis with the SCOR Model**, *IFIP WG 5.7 International Conference, Advances in Production Management Systems 2017, September 3-7 2017, Hamburg, Germany*

ACTI-2017-14 [SHYAM S.](#) [LE PIERRÈS N.](#), [BOUDEHENN F.](#), [PERIER-MUZET M.](#), **Thermodynamic Analysis of Small Scale Cooling and Power Cogeneration Cycle Using Ammonia-Water Couple**, *SDEWES2017, 4-8 octobre 2017, Dubrovnik, Croatie.*

ACTI-2017-15 [FOSSA M.](#), [STUTZ B.](#), [PRIARONE A.](#), [COPEREY A.](#), **Thermal Response of helix ground heat exchangers**, *IGSHPA Conference, March 14-16 2017, Denver*

ACTI-2017-16 [LE TELLIER M.](#), [BERRAH L.](#), [STUTZ B.](#), [BARNABÉ S.](#), [AUDY J.F.](#), **From SCM to Eco-Industrial Park management: Modelling Eco-Industrial Park's symbiosis with the SCOR model**, *APMS, September 3rd to 7th, 2017 Hamburg, Germany*

ACTI-2017-17 [ESENCE T.](#), [BRUCH A.](#), [FOURMIGUÉ J.F.](#), [STUTZ B.](#), **Extended modeling of packed-bed sensible heat storage systems**, *Solar PACES 2017, Sep 26-29 2017, Santiago, Chile*

ACTI-2017-18 [AIANE M.](#), [RAMOUSSE J.](#), [STUTZ B.](#), [BOUYAUD M.](#), [BOUDARD E.](#), **Entropy generation analysis of an automotive air-conditioning system by absorption**, *International Sorption Heat Pump Conference 2017, Aug. 7-10, 2017, Tokyo*

ACTI-2017-19 [AIANE M.](#), [RAMOUSSE J.](#), [STUTZ B.](#), [BOUYAUD M.](#), [BOUDARD E.](#), **Dynamic modeling of an automotive air-conditioning system by absorption**, *International Sorption Heat Pump Conference 2017, Aug. 7-10, 2017, Tokyo*

ACTI-2017-20 [THOMARE W.](#), [ROUCHIER S.](#), [WOLOSZYN M.](#), [FRANCOIS E.](#) **Automated commissioning of building heating systems by numerical model calibration**, *15th International Conference of IBPSA, IBPSA2017, 7-9 August 2017, San Francisco, USA*

ACTI-2017-21 [NGUYEN D.M.](#), [GRILLET A.C.](#), [DIEP T.M.H.](#), [DO THI V.V.](#), [HA THUC C.N.](#), [WOLOSZYN M.](#), **Hygric and Thermal Insulation Properties of Building Materials Based on Bamboo Fibers**, *4th international conference CIGOS 2017, 26-27 october 2017, Ho Chi Minh City University of Technology, Vietnam,*

ACTI-2017-22 [TRAN D.K.](#), [PRIME N.](#), [FROLIO F.](#), [CALLARI C.](#), [VINCENS E.](#). **Discrete modelling of front propagation in backward piping erosion**. In EPJ Web of Conferences (Vol. 140, p. 09036). EDP Sciences. Powders and Grains 2017 – 8th International Conference on Micromechanics on Granular Media 2017. DOI: 10.1051/epjconf/201714009036

ACTI-2017-23 [ANAYA J.](#), [MERLIN G.](#), [THIVEL P.X.](#) **Neodymium recovery: from ionic liquids to bioelectrochemical systems**. EUISMET 2017, 3-6 October 2017, Lisbon Portugal.

ACTI-2017-24 [BUI Q.-B.](#), [PRUDHOMME E.](#), [GRILLET A.C.](#), [PRIME N.](#) **An experimental study on earthen materials stabilized by geopolymers**, *4th international conference CIGOS 2017, 26-27 october 2017, Ho Chi Minh City University of Technology, Vietnam,*

2018 (27)

ACTI-2018-1 [EL HAJJAR A.](#), [CHAUHAN P.](#), [PRIME N.](#), [PLÉ O.](#) **Effect of suction on the mechanical characteristics of uniformly compacted rammed earth** IOP Conference Series: Earth and Environmental Science 143 (1), 012045, CUTE2018, Ho Chi Minh Ville, Vietnam

ACTI-2018-2 [RAMOUSSE J.](#), [GOUPIL C.](#), **Synthetic graphical analysis of the thermoelectric systems operating modes**, *Entropy 2018, 14-16 May 2018, Barcelona – Spain*

ACTI-2018-3 [SAYEGH H.](#), [LECONTE A.](#), [OUVRIER BONAZ O.](#), [WURTZ E.](#), [ROUCHIER S.](#), [FRAISSE G.](#) **Determination of a Short Simulation Sequence for the Multi-Criteria Optimization of Buildings: Bibliographic Study and Perspectives**. 13th SDEWES conference, Palermo, September 30 - October 4, 2018. 14p.

ACTI-2018-4 [POLIMANN T.](#), [ONDARTS M.](#), [GONZE E.](#), [LE PIERRES N.](#), [BENNICI S.](#), [AUROUX A.](#), **Study of Pollutants impact on building solar heat storage adsorbent materials**, *10th International Exergy, Energy and Environment Symposium (IEEES-10), July 1-4, 2018, Katowice, Poland*

ACTI-2018-5 [FRAISSE G.](#), [SOUYRI B.](#), [WURTZ F.](#), [BRUNOTTE X.](#), [ENCIU P.](#), [PEUPORTIER B.](#), [ROBILLART M.](#), [EL-MANKIBI M.](#), [STATHOPOULOS N.](#), [TRUCHET S.](#), [FRANÇOIS E.](#), [SHYAM S.](#) **Towards holistic building optimization using a computing environment that enable interoperability between numerical tools**. ECOS, 17-22 June 2018, Guimarães, Portugal, 12 p.

ACTI-2018-6 CARBAJO JIMENEZ P., LECONTE A., OUVRIER BONNAZ O., FRAISSE G., WURTZ E., **Energetic Behaviour of a Solar Thermal Combi-System Producing Domestic Hot Water and Preheating the Ventilation Air in Individual Houses.** *EuroSun 2018*. sept 10-13 Rapperswil, Switzerland

ACTI-2018-7 ALTAMIRANO A., STUTZ B., LE PIERRES N., **Selection of High-Performance Working Fluid for a Solar-Geothermal Absorption Cooling System and Techno-Economic Study in the Northern Mexican Conditions,** *12th International Conference on Solar Energy for Buildings and Industry*, Rapperswil, Switzerland, 2018, September 10-13

ACTI-2018-8 FARCOT L., LE PIERRÈS N., FOURMIGUÉ J.F., **Experimental investigation of a moving-bed heat storage thermochemical reactor,** *13th Conference on Sustainable Development of Energy, Water, and Environment Systems, SDEWES2018*, Palerme (Italie), 30 septembre – 4 octobre 2018 (oral et archival paper, 10 pages).

ACTI-2018-9 CHARDON G., LE PIERRÈS N., RAMOUSSE J., **Absorption heat pumps in district heating networks: 4 operating modes,** *4th International Conference on Smart Energy Systems and 4th Generation District Heating, 4DH 2018*, Aalborg (Danemark), 13-14 Novembre 2018 (oral)

ACTI-2018-10 EL NABOUCH R., BUI Q.B., PLÉ O., PERROTIN P. **Proposing limit states for in-plane seismic assessment of rammed earth walls,** *10th international masonry conference, milan - italy 9 to 11 july 2018, g. milani, a. taliercio and s. garrity (eds.)*

ACTI-2018-11 GOFFART J., WOŁOSZYN M., **Evaluation of the Impact of Weather Variability on a Net Zero Energy Building: Advantage of Sensitivity Analysis for Performance Guarantee,** *7th International Building Physics Conference (IBPC)*, September 23-26, 2018, Syracuse, NY, USA.

ACTI-2018-12 LE TELLIER M., BERRAH L., STUTZ B., AUDY J.F., BARNABÉ S., **A Review of Actions towards Circular Economy for Business Park's , Going Green - CARE INNOVATION** 26–29 November 2018, Vienna, Austria

ACTI-2018-13 NGUYEN D.M., GRILLET A.C., GOLDIN T., DIEP T.M.H., WOŁOSZYN M., **Bamboo fiberboards and attapulgite : does it lead to an improvement of humidity control in buildings?** *2nd international conference on sustainable development in civil, urban and transportation engineering (CUTE 2018)*, 17-19 avril 2018, Ho Chi Minh Ville Vietnam

ACTI-2018-14 GUYOT G., GEOFFROY H., ONDARTS M., GONZE E., WOŁOSZYN M. **Influence of multizone airleakage on IAQ performance in residential buildings,** *Smart Ventilation for Buildings. AIVC Conference 2018*, September 18-19, Juan les Pins, France

ACTI-2018-15 GUYOT G., WALKER I., SHERMAN M., **A review of performance-based approaches to residential smart ventilation in 5 countries,** *Smart Ventilation for Buildings. AIVC Conference 2018*, September 18-19, Juan les Pins, France.

ACTI-2018-16 GUYOT G., WALKER I., SHERMAN M., **A review of smart ventilation energy and IAQ performance in residential buildings,** *Smart Ventilation for Buildings. AIVC Conference 2018*, September 18-19, Juan les Pins, France

ACTI-2018-17 CHARDON G., LE PIERRES N., RAMOUSSE J., 2018. **Absorption heat pumps in district heating networks: 4 operating modes.** *4DH Conference 2018*, November 13-14, Aalborg, Denmark

ACTI-2018-18 N'TSOUKPOE K.E., LE PIERRES N., SESHE Y. M., COULIBALY Y., **Technico-economic comparison of heat transfer fluids or thermal energy storage materials: a case study using Jatropha curcas oil,** *1er Colloque International sur le nexus Eau – Énergie – Alimentation – Habitat SustainEng 2018*, 12-14 décembre 2018, Ouagadougou (Burkina Faso).

ACTI-2018-19 GOMNA A., N'TSOUKPOE K. E., LE PIERRES N., Y. COULIBALY, **Thermal stability of vegetable oils-based thermal fluids at high temperature,** *1er Colloque International sur le nexus Eau – Énergie – Alimentation – Habitat SustainEng 2018*, 12-14 décembre 2018, Ouagadougou (Burkina Faso).

ACTI-2018-20 PASSIARD J.P., PLÉ O., PERROTIN P. **Repair of a masonry wall with an innovative cement based composite,** *9th International Conference on Fibre-Reinforced Polymer (FRP) Composites in Civil Engineering (CICE 2018)*, PARIS 17-19 JULY 2018.

ACTI-2018-21 LI Y., PABIOUT H., MENEZO C., **Early-Stage Natural Convection in a Vertical Channel,** *16th International Heat Transfer Conference (IHTC16)*, 10-15 août 2018. Pékin, Chine

ACTI-2018-22 THEBAULT M., GIROUX--JULIEN S., TIMCHENKO V., MENEZO C., REIZES J.. **Impact of external temperature distribution on the turbulent and thermal fields in a vertical uniformly heated channel,** *16th International Heat Transfer Conference (IHTC16)*, 10-15 août 2018. Pékin, Chine

ACTI-2018-23 GOVEHOVITCH B., GIROUX-JULIEN S., PEYROL E., MENEZO C., **Building Integrated Photovoltaic (PV) Systems – Energy production modeling in urban environment,** *Eurosun*, 2018. Rapperswill, Autriche

ACTI-2018-24 THEBAULT M., GIROUX--JULIEN S., TIMCHENKO V., MÉNÉZO C., REIZES J., **Decomposition method for the study of spatially developing transitional natural convection in vertical channel,** *12th European Fluid Mechanics Conference (EFMC12)*, Vienna September 2018, Autriche

ACTI-2018-25 ROUCHIER S., JIMENEZ M., CASTANO S., **Sequential Monte Carlo for on-line estimation of the heat loss coefficient,** *7th International Building Physics Conference (IBPC)*, September 23-26, 2018, Syracuse, NY, USA.

ACTI-2018-26 MERLET Y., ROUCHIER S., JAY A., WOLOSZYN M., **Elaboration of the decision space for an optimization of building retrofit**, 7th International Building Physics Conference (IBPC), September 23-26, 2018, Syracuse, NY, USA.

ACTI-2018-27 JURICIC S., ROUCHIER S., FOUCQUIER A., FRAISSE G., **Evaluation of the physical interpretability of calibrated building model parameters**, 7th International Building Physics Conference (IBPC), September 23-26, 2018, Syracuse, NY, USA

2019 (janvier – juillet : 7)

ACTI-2019-1 LOGINI A., GALLO STAMPINO P., DOTElli G., BELLOTTO M., GRILLET A. C., CARUSO M., SABBADINI S., OUTIN J. **Evaluation Of Different Raw Earthen Plasters Stabilized With Lime For Bio-Building Exploitation**, 3rd international conference on Bio-Based Building Materials, June 26th-28th, 2019, Belfast, United Kingdom

ACTI-2019-2 ALLAIN M., PLE O., PRIME N., ROUX E., VACHER P., **Field displacement measurement for structural health monitoring**, 2nd International Conference on Health Monitoring of Civil & Maritime Structures HeaMES 2019, 23rd-24th May, 2019, Glasgow, UK

ACTI-2019-3 LE TELLIER M., AUDY J-F., BARNABÉ S., BERRAH L., STUTZ B., **Design and Development of a Sustainable Regional Industrial Park: A Case Study**, 4e Conférence Internationale en Gestion de Projet de l'UQTR, May 2019, Trois-Rivières, Canada

ACTI-2019-4 LE TELLIER M., BERRAH L., AUDY J-F., STUTZ B., BARNABÉ S., **Vers un modèle d'expression de la performance pour le pilotage d'un écoparc d'activités**, CIGI 2019, 13ème Congrès international de génie industriel, 2019, Montréal, Canada

ACTI-2019-5 K. BOUTY, L. GAILLARD, M. THEBAULT, A. GALLICE, C. MENEZO. **Solar Cadaster in urban area including verticality**. Solar World Congress, SWC2019 Santiago Chile, 4-7 november 2019

ACTI-2019-4 M. THEBAULT, L-A BERRAH, G. DESTHIEUX, C. MENEZO. **Towards a solar cadastre for the monitoring of solar energy deployment : the case of Geneva**. Solar World Congress, SWC2019 Santiago Chile, 4-7 november 2019

ACTI-2019-4 B. GOVEHOVITCH, S. GIROUX-JULIEN, L. GAILLARD, E. PEYROL, C. MENEZO. **Numerical and experimental study of façades PV production**. Solar World Congress, SWC2019 Santiago Chile, 4-7 november 2019

Articles publiés dans des actes de colloques / congrès national (nombre total = 48)

2014 (6)

ACTN-2014-1 FLORES C., KIPER I., PERIER MUZET M., POINARD C., GOLDIN T., STUTZ B., **Etude expérimentale des transferts de masse et de chaleur pour un absorbeur à film ruisselant**, Congrès SFT 2014, 3 au 6 juin 2014, Lyon, France

ACTN-2014-2 HUAYLLA F., LE PIERRES N., STUTZ B., **Simulation et analyse des performances d'un système de stockage de chaleur intersaisonnier par absorption**, Congrès SFT 2014, 3 au 6 juin 2014, Lyon, France

ACTN-2014-3 CAP J.F., HUAYLLA F., STUTZ B., **Modélisation d'une machine à absorption H₂O/LiBr à plaques et films ruisselants**, Congrès SFT 2014, 3 au 6 juin 2014, Lyon, France

ACTN-2014-4 GAILLARD L., MENEZO C., GIROUX S., PABIOT H., LE-BERRE R., **Prédicibilité des performances énergétiques de double-peaux photovoltaïques-thermiques à grande échelle et en conditions réelles**, Congrès SFT 2014, 3 au 6 juin 2014, Lyon, France

ACTN-2014-5 SAADON S., GAILLARD L., MENEZO C., **Modélisation et simulation thermique d'un bâtiment équipé d'une façade photovoltaïque ventilée**, Congrès SFT 2014, 3 au 6 juin 2014, Lyon, France

ACTN-2014-6 WEISS L., AMARA M., LUBINEAU F., MENEZO C., **Modélisation du productible d'un module photovoltaïque en silicium cristallin en fonction des contraintes climatiques**, Congrès SFT 2014, 3 au 6 juin 2014, Lyon, France

2015 (6)

ACTN-2015-1 EL-NABOUCH R., BUI Q.B., PERROTIN P., PLE O., PLASSIARD J.P., **Modélisation numérique de structures en pisé : analyses et recommandations**, RUGC15, 27-29 mai 2015, Pau, France.

ACTN-2015-2 SENTOSA B.O.B., BUI Q.B., PLASSIARD J.P., PLÉ O., PERROTIN P., **Evaluation des endommagements dans les structures BA à partir de mesures vibratoires : études expérimentales et numériques**, RUGC15, 27-29 mai 2015, Pau, France.

ACTN-2015-3 PERIER-MUZET M., BEJAT T., KEDOWIDE Y., POINARD C., THERME D., WOLOSZYN M., **Étude expérimentale des transferts de chaleur et d'humidité dans une paroi hygroscopique et perméable à la vapeur – Analyse expérimentale de l'impact de l'inhomogénéité des conditions de surface et de singularités sur les transferts**, Colloque SFT, 2015, La Rochelle

ACTN-2015-4 BELLEVILLE P., MERLIN G., RAMOUSSE J., DESEURE J. **Modélisation 1D de la ségrégation interespèces dans une pile microbienne alimentée en glucose**, 7ème colloque du réseau national biofilm RNB, 2-3 décembre 2015, Toulouse

ACTN-2015-5 ANOUKOU K., PASTOR F., DUFRENOY P., PASTOR J., KONDO D. **Analyse limite de matériaux poreux ductiles ayant une matrice de Mohr-Coulomb : un monde semé d'embûches**, 22ème Congrès Français de Mécanique, 24-28 Août 2015, Lyon

ACTN-2015-6 LOONEN R.C.G.M., RICO-MARTINEZ J.M., FAVOINO F., BRZEZICKI M., MENEZO C., LA FERLA G., AELENEI L., **Design for façade adaptability – Towards a unified and systematic characterization**, 10th Conference on Advanced Building Skins (Proceedings 1284-1294), 2015, Bern, Switzerland

2016 (15)

ACTN-2016-1 EL-NABOUCH R., BUI Q.-B., PRIME N., PERROTIN P., PLE O., POINARD C., GOLDIN T., PLASSIARD J.-P., JAFFRE M., TEYTUL, **Comportement de murs en pisé sous poussée progressive : études expérimentales et numériques**, RUGC16, 25-27 mai 2016, Liège, Belgique.

ACTN-2016-2 LAYADI I., PLASSIARD J.-P., PERROTIN P., PLE O., MESSABHIA A., **Comportement mécanique des structures en béton armé avec remplissage en maçonnerie**, RUGC16, 25-27 mai 2016, Liège, Belgique.

ACTN-2016-3 BELGHAT C., PLASSIARD J.-P., PERROTIN P., PLE O., GUENFOUD M., MESSABHIA A., **Contribution à la modélisation dynamique de la maçonnerie chainée**, RUGC16, 25-27 mai 2016, Liège, Belgique.

ACTN-2016-4 LEROUX G., ANGER J., STEPHAN L., LE PIERRES N., WURTZ E., **Etude expérimentale d'un système innovant de rafraîchissement de bâtiment**, IBPSA France 2016, 23-24 mai 2016, Champs-sur-Marne, France

ACTN-2016-5 STUTZ B., ALTAMIRANO A., STEPEC M., LE PIERRES N., **Evaporateurs à films ruisselants**, congrès SFT, 31 mai – 3 juin 2016, Toulouse

ACTN-2016-6 BELLEUDY C., WOLOSZYN M., CHHAY M., COSNIER M., QUENARD D., **Vers la prise en compte des interactions air-enveloppe dans les défauts d'étanchéité**, IBPSA France 2016, 23-24 mai 2016, Champs-sur-Marne, France

ACTN-2016-7 RAMOUSSE J. **Représentation graphique des modes opératoires des systèmes dithermiques**. SFT 2016, 31 mai-3 juin 2016, Toulouse.

ACTN-2016-8 HUBERT J., PLougoven E., PRIME N., COLLIN F., **Boom clay drying behavior: experimental and numerical study**. RUGC16, 25-27 mai 2016, Liège, Belgique

ACTN-2016-9 S. ROUCHIER, **Caractérisation de paramètres et analyse d'identifiabilité par méthode Bayésienne appliquée au bâtiment**. IBPSA France 2016, 23-24 mai 2016, Champs-sur-Marne, France

ACTN-2016-10 STEFANOIU A.M., WOLOSZYN M., JAY A., WURTZ E., BUHE C., SCHNEUWLY P., ANGER J., **Comparaison entre la phase de conception et les mesures en site occupé d'une maison basse consommation**, IBPSA France 2016, 23-24 mai 2016, Champs-sur-Marne, France

ACTN-2016-11 THOMARÉ W., REFFET T., ROUCHIER S., WOLOSZYN M., **Génération automatisée de plans d'instrumentations pour le commissionnement des bâtiments**, IBPSA France 2016, 23-24 mai 2016, Champs-sur-Marne, France

ACTN-2016-12 BUSSER T., PIOT A., PAILHA M., WOLOSZYN M., **Vers les simulations plus précises des transferts hygrothermiques dans les matériaux fortement hygroscopiques**, IBPSA France 2016, 23-24 mai 2016, Champs-sur-Marne, France

ACTN-2016-13 TAURINES K., MENEZO C., GIROUX-JULIEN S., **Etude expérimentale et numérique d'un échangeur air/sol intégré au bâtiment**, SFT 2016, Toulouse 31 mai-3 juin 2016

ACTN-2016-14 THEBAULT T., GIROUX-JULIEN, S. MENEZO C. **Modèles d'ordre réduit pour l'analyse et la modélisation de l'effet cheminée et des transferts de chaleur associés - application aux enveloppes ventilées des bâtiments solaires ou producteurs d'énergie**. Congrès de la Société Française de Thermique, 2016, Toulouse.

ACTN-2016-15 OLIVEIRA C.T., LEPAGE G., PERRIER G., CAMPOS L. M. S., MERLIN G., **Células a combustível microbianas como tecnologia sustentável de conversão energética de efluentes**. Encontro Internacional sobre Gestão Empresarial e Meio Ambiente. Retrieved from <http://engemausp.submissao.com.br/18/anais/arquivos/179.pdf>, 2016

2017 (2)

ACTN-2017-1 LE PIERRES N., HUAYLLA F., STUTZ B., PERRAUD J., GOLDIN T., **Experimental investigation of a long term solar heat storage system by absorption with the innovative KCOOH-H₂O couple**, Congrès SFGP2017, 11-13 juillet 2017, Nancy (France) - Récents Progrès en Génie des Procédés, Numéro 110 – 2017, ISSN 1775-335X - ISBN 978-2-910239-85-5, Ed. SFGP, Paris, France.

ACTN 2017-2 AIANE M., RAMOUSSE J., BOUYAUD M., BOUDARD E., STUTZ B., **Modélisation dynamique d'un système de climatisation par absorption**, congrès SFT, 30 mai – 2 juin 2017, Marseille

2018 (19)

ACTN-2018-1 PLASSIARD J.-P., PLE O., PERROTIN P., **Réparation d'un mur maçonné avec un TRM innovant**, RUGC 2018, 20-22 juin 2018, Saint-Etienne, France..

ACTN-2018-2 PLASSIARD J.P., BELGHIAH C., LAYADI I., PLE O., PERROTIN P., MESSABHIA A., GUENFOUD M., **Effet du mode constructif sur le comportement au séisme de portiques béton armé avec panneau de maçonnerie**, RUGC 2018, 20-22 juin 2018, Saint-Etienne, France.

ACTN-2018-3 PLASSIARD J.P., BELGHIAH C., LAYADI I., PLE O., PERROTIN P., MESSABHIA A., GUENFOUD M., **Résistance latérale de portiques béton armé avec remplissage : effet du mode constructif**, JNM 2018, IFSTTAR, Paris, France.

ACTN-2018-4 BUSSER T., PAILHA M., PIOT A., WOLOSZYN M., **Etude des transferts hygrothermiques dans le bois : du matériau au volume d'air**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-5 GEOFFROY H., GUYOT G., ONDARTS M., GONZE E., WOLOSZYN M., **Développement d'une approche performantielle de la qualité de l'air – Impact d'une prise en compte fine des distributions de perméabilité à l'air externe et interne sur la modélisation multizone d'une maison basse consommation**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-6 GONDIAN L., GOFFART J., WOLOSZYN M., WURTZ E., BUHE C., MARECHAL P., **Evaluation de l'influence des occupants sur le confort estival : utilisation de l'analyse de sensibilité**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-7 ROUCHIER S., RABOUILLE M., OBERLE P., **Comparaison des modélisations déterministe et stochastique pour le calibrage de modèles thermiques simplifiés**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-8 MERLET Y., ROUCHIER S., JAY A., WOLOSZYN M., **Multiobjective optimization of building stock energy retrofit**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-9 JURICIC S., GOFFART J., ROUCHIER S., FOUCQUIER A., FRAISSE G., **Impact de la variabilité naturelle des conditions météorologiques sur l'estimation des paramètres : application aux modèles RC**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-10 AIANE M., RAMOUSSE J., BOUYAUD M., BOUDARD E., STUTZ B., **Étude du comportement d'un désorbeur à plaques compact**, congrès SFT, 29 mai – 1 juin 2018, Pau

ACTN-2018-11 THONON M., AIANE M., RAMOUSSE J., BOUYAUD M., BOUDARD E., STUTZ B **Etude du comportement d'un évaporateur adiabatique à films tombants entre grilles**, congrès SFT, 29 mai – 1 juin 2018, Pau

ACTN-2018-12 CARBAJO JIMENEZ P., LECONTE A., OUVRIER BONNAZ O., FRAISSE G., WURTZ E. **Etude numérique d'un nouveau couplage entre un système solaire combiné à eau et un système de ventilation par insufflation pour les bâtiments à haute performance énergétique**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-13 WURTZ F., FRAISSE G., SERAFIG GUARDINI L.A., S., BRUNOTTE X., ENCIU P., PEUPORTIER B., ROBILLART M., EL-MANKIBI M., STATHOPOULOS SHYAM N., TRUCHET S. **Vers une optimisation intégrée des bâtiments basée sur un environnement permettant l'interopérabilité des outils numériques**, IBPSA France, 15-16 mai 2018, Bordeaux.

ACTN-2018-14 POLIMANN T., BENNICKI S., ONDARTS M., GONZE E., AUROUX A., LE PIERRES N., **Impact des polluants de l'air sur les matériaux de stockage thermochimique de la chaleur**, Matériaux 2018, 19-23 novembre 2018, Strasbourg (France).

ACTN-2018-15 HAJJAR A EL, CHAUHAN P., PRIME N., PLÉ O., **Methodology to study the suction effects on mechanical characteristics of rammed earth**, RUGC 2018, 20-22 juin 2018, Saint-Etienne, France.

ACTN-2018-16 GOFFART J., WOLOSZYN M., **RBD-FAST : une méthode d'analyse de sensibilité rapide et rigoureuse pour la garantie de performance énergétique**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-17 RECHT T., GOFFART J., MORA L., WOLOSZYN M., BUHE C., **Méthodologie pour la comparaison des performances simulées et mesurées de maisons « à énergie positive »**, IBPSA France, 15-16 mai 2018, Bordeaux

ACTN-2018-18 AMIEL M., SAUCE G., BUHE C., BOILEAU H., **Développement d'une méthodologie de diagnostic énergétique dérivée de l'outil réglementaire**, RUGC 2018, 20-22 juin 2018, Saint-Etienne, France.,

ACTN-2018-19 GEOFFROY H., BROCHE C., SAUCE G., BOILEAU H., BUHE C., **Mise en place de Contrat de Performance Energétique pour le parc hôtelier alpin – Le projet CREnHOM, une approche pluridisciplinaire d'une problématique transfrontalière**, IBPSA France, 15-16 mai 2018, Bordeaux

Invitations à des colloques / congrès à l'étranger (keynote)

INV-2015-1 **M. WOLOSZYN**. Building Physics and materials: is the past part of our future? **Conférence Internationale IBPC 2015 (International Building Physics Conference)**, (2015). Turin, Italie

INV-2015-2 **MENEZO C**, Intégration de l'énergie solaire du bâtiment à la ville, **CIFQ 2015**, Sherbrooke, Canada, mars 2015

INV-2016-2 **MENEZO C**, Reduction of PV Module Operating temperature through hybridization of solar collectors, **6th Asia-Pacific Forum on Renewable Energy**, November 10th 2016 Guangzhou

INV-2017-3 **BOILEAU H.** Towards a sustainable sustainability", **International Conference on Industrial Technology for Sustainable development**", Makassar, Indonesia, 25-26 October 2017

INV-2018-2 **C. MÉNÉZO**. Keynote « Solar Cities in the context of urban densification: a fundamental challenge in terms of urban planning ». **Inaugural French-Australian Energy Symposium - UNSW**, Sydney, 7 February 2018

INV-2018-3 **M. WOLOSZYN**. Some insight into hygrothermal behavior of constructions, **CUTE2018**, Ho Chi Minh Ville, Vietnam,

Invitations à des colloques / congrès en France (présentations plénières sur invitation)

INV-2016-1 **MENEZO C**, Intégration de l'énergie solaire au cadre bâti, **Colloque TR2i (Rencontre Internationales Recherche Industrie en Thermique), 2016 Saint Malo**

INV-2016-3 **MENEZO C**, Ingénierie bio-inspirée : Le monde du vivant source d'innovations pour la transition énergétique, **Invitation du comité scientifique du département INSIS-CNRS, Déc. 2016**

INV-2017-1 **STUTZ B.**.., Stockages thermiques de l'énergie solaire pour les besoins du bâtiment ou de la production d'électricité, **séminaire Daniel Dautreppe**, 5-9 décembre 2016 Grenoble, France

INV-2017-4 **LE PIERRES N.**, Stockage de la chaleur solaire par procédés thermochimiques, conférence plénière, journée scientifique sur le **Génie des Procédés en Rhône-Alpes Auvergne**, 16 Novembre 2017, Le Bourget du Lac, France

INV-2017-5 **BOILEAU H.**, BUHE C., GENOUD S., EMERY L., Contribution à la Rénovation Energétique de l'Hôtellerie de Montagne, **Convention Alpine**, Management de l'énergie dans les hôtels alpins, Bolzano, Italie, 28-29/11/2017

INV-2018-1 **LE PIERRES N.**, PROSSIS2 : PROcéder pour le Stockage Solaire Inter Saisonnier, **Journées R&D ADEME/ANR : La Recherche au service de la transition énergétique**, 4-5 juin 2018, Issy les Moulineaux, France.

INV-2018-4 **M. WOLOSZYN**, Commissionnement et robustesse en énergétique du bâtiment, éléments de la transition écologique, **RUGC 2018**, 20-22 juin 2018, Saint-Etienne, France

INV-2018-5 **MENEZO C.**, « Les villes solaires dans le contexte d'une densification urbaine : un enjeu fondamental en terme d'aménagement urbain, **Colloque TR2i, 2016 Saint Malo**

Brevets, licences et déclarations d'invention

Brevets publiés (nombre total = 17)

BRE-2015-1 PERROTIN PASCAL, PHILIPPE SEBASTIEN « **Tour d'étalement à tronçon intermédiaire réduit** », n° publication : FR3008724A1, le 23 janvier 2015

BRE-2015-2 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Structure modulaire de soutien** », n° publication : FR3012492A1, le 1^{er} mai 2015

BRE-2015-3 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Etau télescopique motorisé** », n° publication : FR3012498A1, le 1^{er} mai 2015

BRE-2015-4 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Panneau secondaire pour structure modulaire de coffrage de dalle** », n° publication : FR3021984A1, le 11 décembre 2015

BRE-2015-4 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Dispositif de raccordement à stabilité améliorée** », n° publication : FR3021984A1, le 11 décembre 2015

BRE-2016-1 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Poutrelle primaire de soutien à longueur ajustable** », n° publication : FR3021985A1, le 12 février 2016

BRE-2016-2 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Poutrelle à extrémités de connexion articulée** », n° publication : FR3034120A1, le 30 septembre 2016

BRE-2017-1 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Dispositif de sécurité pour structure de soutien de coffrage de dalle** », n° publication : FR3041010A1, le 17 mars 2017

BRE-2017-2 PERROTIN PASCAL, PHILIPPE SEBASTIEN, SOUVIGNET ALEXANDRE « **Dispositif d'abaissement destiné au soutien d'une structure de coffrage de dalle** », n° publication : FR3042210A1, le 14 avril 2017

BRE-2017-3 LESCOUET Alissa, BERSON Solenn, CELLE Caroline, LECHENE Pierre-Balthazar SIMONATO Jean-Pierre « **Cellules tandem multifils** », n° publication : EP3161883, le 3 mai 2017

BRE-2017-4 L.FREITAS-DUTRA, N. MENDES, M. WOLOSZYN, A.C GRILLET, « **Composés hautement hygroscopiques à base d'argile et d'additifs. Procédés de fabrication** », Brevet N° BR1020170174522 déposé le 15 août 2017 au Brésil.

BRE-2018-1 WURTZ ETIENNE, LEROUX GUILLIAN, DESBREE OLIVIER, « **Système de gestion de la température d'un bâtiment à consommation d'énergie réduit** », n° publication : FR3058742A1, le 18 mai 2018

BRE-2018-2 PERROTIN PASCAL, PHILIPPE SEBASTIEN, POINARD CEDRIC, SOUVIGNET ALEXANDRE « **Dispositif anti-basculement** », n° publication : FR3059691A1, le 8 juin 2018

BRE-2018-3 PERROTIN PASCAL, PHILIPPE SEBASTIEN, POINARD CEDRIC, SOUVIGNET ALEXANDRE « **Dispositif pour la manutention d'un panneau de coffrage** », n° publication : FR3059692A1, le 8 juin 2018

BRE-2018-4 PERROTIN PASCAL, PHILIPPE SEBASTIEN, POINARD CEDRIC, SOUVIGNET ALEXANDRE « **Dispositif pour la fixation d'un potelet** », n° publication : FR3062666A1, le 10 août 2018

BRE-2018-5 PERROTIN PASCAL, PHILIPPE SEBASTIEN, POINARD CEDRIC, SOUVIGNET ALEXANDRE « **Dispositif de manutention** », n° publication : FR3064253A1, le 28 septembre 2018

BRE-2018-6 PERROTIN PASCAL, PHILIPPE SEBASTIEN, POINARD CEDRIC, SOUVIGNET ALEXANDRE « **Dispositif de liaison pour table de coffrage** », n° publication : FR3066208A1, le 16 novembre 2018