

## Publications internationales parues en 2009

### Thème 1

- 1 Cassagnabère F., Escadeillas G., Mouret M., Study of the reactivity of cement/Metakaolin binders at early age for specific use in the precast concrete industry, *Construction and Building Materials*, Vol. 23, Issue 2, February 2009, Pages 775-784
- 2 Cassagnabère F., Mouret M., Escadeillas G., Use of flash metakaolin in a slip-forming concrete for the precast industry, *Magazine of Concrete Research*, Vol. 61, Issue 10, Pages 767-778, Dec 2009
- 3 Cassagnabère F., Mouret M., Escadeillas G., Early hydration of clinker-slag-metakaolin combination in steam curing conditions, relation with mechanical properties, *Cement and Concrete Research*, Vol. 39, Issue 12, Pages 1164-1173, Dec 2009
- 4 Coutand M., Deydier E., Cyr M., Mouchet F., Gauthier L., Guilet R., Savaete L.-B., Cren S., Clastres P., Evaluation of laboratory and industrial meat and bone meal combustion residue as cadmium immobilizing material for remediation of polluted aqueous solutions: "Chemical and ecotoxicological studies", *Journal of Hazardous Materials* Vol. 166, Issue 2-3, Pages 945-953, Jul 2009
- 5 El Barrack M., Mouret M., Bascoul A., Self-compacting concrete paste constituents: Hierarchical classification of their influence on flow properties of the paste, *Cement and Concrete Composites*, Vol. 31, Issue: 1, January 2009, Pages 12-21
- 6 Habert G., Choupay N., Escadeillas G., Guillaume D., Montel J.-M., Clay content of argillites: Influence on cement based mortars, *Applied Clay Science*, Vol. 43, Issues 3-4, March 2009, Pages 322-330
- 7 Mahieux P.-Y., Aubert J.-E., Escadeillas G., Utilization of weathered basic oxygen furnace slag in the production of hydraulic road binders, *Construction and Building Materials*, Vol. 23, Issue 2, Pages 742-747, Feb. 2009
- 8 Mebrouki A., Cyr M., Belas Belaribi N., Enhancing value of local materials in developing countries – Case of an Algerian pozzolan, *European Journal of Environmental and Civil Engineering*, Vol. 13, Issue 10, Pages 1263-1278
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### Thème 2

- 10 Al Ahmad S., Toumi A., Verdier J., François R., Effect of crack opening on carbon dioxide penetration in cracked mortar samples, *Materials and Structures* , Vol. 42, Issue 5, Pages 559-566, Jun. 2009
- 11 Aubert J.-E., Escadeillas G., Leklou N., Expansion of five-year-old mortars attributable to DEF: Relevance of the laboratory studies on DEF?, *Construction and Building Materials*, Vol. 23, Issue 12, Pages 3583-3585, Dec 2009
- 12 Bertron A., Escadeillas G., de Parseval P., Duchesne J., Processing of electron microprobe data from the analysis of altered cementitious materials, *Cement and Concrete Research*, Vol. 39, Issue 10, Pages 929-935, Oct. 2009
- 13 Cyr M., Carles Gibergues A., Moisson M., Ringot E., Mechanism of ASR reduction by reactive aggregate powders, *Advances in Cement Research*, Vol. 21, Issue 4, Pages 147-158, Oct 2009
- 14 Cyr M., Rivard P., Labrecque F., Reduction of ASR-expansion using powders ground from various sources of reactive aggregates, *Cement and Concrete Composites*, Vol. 31, Issue 7, Pages 438-446, Aug 2009
- 15 Deby F., Carcasses M., Sellier A., Probabilistic approach for durability design of reinforced concrete in marine environment, *Cement and Concrete Research*, Vol. 39, Issue 5, Pages 466-471, May 2009

- 15 Deby F., Carcasses M., Sellier A., A probabilistic performance-based approach for durability design of reinforced concrete in marine environment, *European Journal of Environmental and Civil Engineering*, Vol. 13, Issue 1, Pages 9-19, 2009
- 17 Deby F., Carcasses M., Sellier A., Toward a probabilistic design of reinforced concrete durability: application to a marine environment, *Materials and Structures*, Vol. 42, Issue 10, Pages 1379-1391, Dec 2009
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- 19 Kaid N., Cyr M., Julien S., Khelafi H., Durability of concrete containing a natural pozzolan as defined by a performance-based approach, *Construction and Building Materials*, Vol. 23, Issue 12, Pages 3457-3467, Dec 2009
- 20 Leklou N., Aubert J.-E., Escadeillas G., Microscopic observations of samples affected by delayed ettringite formation (DEF), *Materials and Structures*, Vol. 42, Issue 10, Pages 1369-1378, Dec 2009
- 21 Lorente S., Vascularized materials as designed porous media, *International Journal of Energy Research*, Vol. 33, Issue 2, Special Issue: Sp. Iss. SI, Pages 211-220, Feb 2009
- 22 Multon S., Sellier A., Cyr M., Chemo-mechanical modeling for prediction of alkali silica reaction (ASR) expansion, *Cement and Concrete Research*, Vol. 39, Issue 6, Pages 490-500, June 2009
- 23 Nguyen T.-S., Lorente S., Carcasses M., Effect of the environment temperature on the chloride diffusion through CEM-I and CEM-V mortars: An experimental study, *Construction and Building Materials*, Vol. 23, Issue 2, Pages 795-803, Feb. 2009
- 24 Sellier A., Bourdarot E., Multon S., Cyr M., Grimal E., Combination of Structural Monitoring and Laboratory Tests for assessment of AAR swelling: application to gate structure dam, *ACI Materials Journal*, Vol. 106, Issue 3, Pages 281-290, May-June 2009
- 25 Vu T.-H., Frizon F., Lorente S., Architecture for gas transport through cementitious materials, *Journal of Physics D: Applied Physics*, Vol. 42, Issue 10, Art. Number 105501, May 2009

### **Thème 3**

- 26 Al-Mahmoud F., Castel A., François R., Tourneur C., Strengthening of RC members with near-surface mounted CFRP rods, *Composite Structures*, Vol. 91, No 2, pp. 138-147, Nov 2009
- 27 Dahou Z., Sbartai M., Castel A., Ghomari F., Artificial neural network model for steel-concrete bond prediction, *Engineering structure*, Vol. 31, Issue 8, Pages 1724-1733, Aug 2009
- 28 Nguyen X.-S., Sellier A., Duprat F., Pons G., Adaptive response surface method based on a double weighted regression technique, *Probabilistic Engineering Mechanics*, Vol. 24, Issue 2, Pages 135-143, April 2009
- 29 Sellier A., Buffo-Lacarrière L., Towards a simple and unified modelling of basic creep, shrinkage and drying creep of concrete, *European Journal of Environmental and Civil Engineering*, Vol. 13, Issue 10, Pages 1161-1182, 2009

### **Thème 4**

- 30 Coronelli D., Castel A., François R., Cleland D., Modelling the response of prestressed beams with corroded reinforcement *European Journal of Environmental and Civil Engineering*, Vol. 13, Issue 6, Pages 653-669, 2009
- 31 Coronelli D., Castel A., Vu N.A., François R., Corroded post-tensioned beams with bonded tendons and wire failure, *Engineering structure*, Vol. 31, Issue 8, Pages 1687-1697, Aug 2009

- 32 Domède N., Pons G., Sellier A., Fritih Y., Assessment method for masonry bridges, *Materials and structures*, Vol. 42, Issue 1, Pages 123-133, Jan. 2009
- 33 Ferrières X., Klysz G., Mazet P., Balayssac J.-P., Evaluation of the concrete electromagnetics properties by using radar measurements in a context of building sustainability, *Computer Physics Communications*, Vol. 180, Issue 8, Pages 1277-1281, Aug 2009
- 34 Kacimi S., Laurens S., The correlation dimension: A robust chaotic feature for classifying acoustic emission signals generated in construction materials, *Journal of Applied Physics*, Vol. 106, Issue 2, Article Number 024909, Jul 2009
- 35 Sbartaï Z.-M., Laurens S., Viriyametantont K., Balayssac J.-P., Arliguie G., Non-destructive evaluation of concrete physical condition using radar and artificial neural networks, *Construction and Building Materials*, Vol. 23, Issue 2, Pages 837-845, Feb. 2009
- 36 Vu N.A., Castel A., François R., Effect of stress corrosion cracking on stress-strain response of steel wires used in prestressed concrete beams, *Corrosion science*, Vol. 51, Issue 6, Pages 1453-1459, Jun 2009
- 37 Zhang R., Castel A., François R., The corrosion pattern of reinforcement and its influence on serviceability of reinforced concrete members in chloride environment, *Cement and Concrete Research*, Vol. 39, Issue 11, Pages 1077-1086, Nov. 2009
- 38 Zhang R., Castel A., François R., Serviceability Limit State criteria based on steel-concrete bond loss for corroded reinforced concrete in chloride environment, *Materials and Structures*, Vol. 42, Issue 10, Pages 1407-1421, Dec 2009

### **Hors Thème**

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- 40 Kim Y.-S., Lorente S., Bejan A., Constructal steam generator architecture, *International Journal of Heat and Mass Transfer*, Vol. 52, Issues 9-10, Pages 2362-2369, Apr 2009
- 41 Kim Y.-S., Lorente S., Bejan A., Transient behavior of vascularized walls exposed to sudden heating, *International Journal of Thermal Sciences*, Vol. 48, Issue 11, Pages 2046-2052, Nov 2009
- 42 Kim Y.-S., Lorente S., Bejan A., Distribution of size in steam turbine power plants, *International Journal of Energy Research*, Vol. 33, Issue 11, Pages 989-998, Sep 2009
- 43 Lee J., Lorente S., Bejan A., Kim M., Vascular structures with flow uniformity and small resistance, *International Journal of Heat and Mass Transfer*, Vol. 52, Issues 7-8, Pages 1761-1768, Mar 2009
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- 50 Wang K.-M., Lorente S., Bejan A., Vascular materials cooled with grids and radial channels, International Journal of Heat and Mass Transfer, Vol. 52, Issues 5-6, Pages 1230-1239, Feb. 2009
- 51 Wang K.-M., Lorente S., Bejan A., The transient response of vascular composites cooled with grids and radial channels, International Journal of Heat and Mass Transfer, Vol. 52, Issue 19-20, Pages 4175-4183, Sep 2009
- 52 Wechsato W., Lorente S., Bejan A., Ordonez J.-C., Elemental T and Y Shapes of Tree Networks of Ducts with Various Cross-Sectional Shapes, Journal Of Hydraulic Engineering-ASCE, Vol. 135, Issue 2, Pages 132-139, Feb 2009
- 53 Zhang H.-L., Lorente S., Bejan A., Vascularization with line-to-line trees in counterflow heat exchange, International Journal of Heat and Mass Transfer, Vol. 52, Issue 19-20, Pages 4327-4342, Sep 2009