	MEDACHS 2010 PROGRAM				
DAY 1 : APRIL, 28, 2010					
	"Casoar Tadorne" Lecture Hall	"Héron" Lecture Room	"Les Baleines" Lecture Room		
08:30	Registration				
09:45	Welcome Gérard Blanchard (La Rochelle University President)				
09:50	Welcome Francis Allard (Civil Engineering Laboratory Director				
10:00					
10:20					
	DUR-1 Millet	PPR-1 - Amiri	NDT-1 Hugenschmidt / Gaillet		
11:00		<b>9 - Belenguer Blasco J.M.</b> "Prevention strategies for pathologic	<b>33 - Lanata F.</b> "A signal processing approach for long-term monitoring of		
11.00	steel in concrete"	shrinkage cracking"	quay structures - the case of Genoa harbour"		
11:20	<b>36 - Melchers R.</b> "Experimental investigation of accelerated low water corrosion of steel piling in harbours"	<b>21 - El Shami A.</b> "Improving the durability of reinforced concrete structures by using corrosion inhibitors"	<b>12 - Boero J.</b> "Effect of the shape of ROC curves on Risk Based Inspection: application of $\alpha$ - $\gamma$ mesure for steel harbor structures"		
11:40	<b>22 - Ezzdine R.</b> "Limestone degradation with Salt - application to Blaye stone"	<b>47 - Perrin M.</b> "Repair Materials Durability Of Structures In Marine Environment"	<b>62 - Villain G.</b> "Adapted mix design and characterization for non destructive assessment of concrete"		
12:00	56 - Shahidzadeh-Bonn N. "Salt weathering of stones: effect of the kinetics of crystallization"	<b>52 - Roziere E.</b> "How to design performance-based specifications in the framework of the European Standards ?"	<b>69 - Hold S.</b> "The Use of LiDAR to Assist Diagnosis of Marine Pier Problems and to Facilitate Repair and Protection Measures"		
12:20	LUNCH				
14:00		Aspects of long-term durability of reinforced concrete st	ructures in marine environments"		
	DUR-2 - Ait-Mokhtar	PPR-2 - Basheer	NDT-2 - Andrade / Breysse		
14:40	<b>19 - El Hachem R.</b> "External sulphate attack on mortars: influence of curing conditions and saturation rate"	<b>57 - Sisomphon K.</b> "Sodium Monofluorophosphate Treatment on Carbonated Slag Mortars"	<b>3 - Balayssac J.P.</b> "Evaluation of chloride contamination in concrete by combining non destructive testing methods"		
15:00	<b>30 - Khelifa M.R.</b> "Testing of sulfate attack protocols on self-compacting concretes"	<b>76 - Donadio M.</b> "Effeciency and durability of Hydrophobic Impregnations: a review of recent research results"	<b>67</b> - <b>Staquet S.</b> "Ultrasonic monitoring of setting and autogenous shrinkage development of high performance concrete in isothermal conditions"		
15:20	<b>46 - Pepenar I.</b> "Long-term durability of reinforced and prestressed concrete elements in marine environment"	68 - Haroske G. "Wear resistant concrete in hydraulic structures"	<b>75 - Keddam M.</b> "Impedance based method for on-site determination of corrosion rate in reinforced concrete structures"		
15:40	<b>70 - Messad</b> "Performance approach using accelerated test method for external sulfate attack"	<b>61 - Tran Thu H.</b> "Influence of the characteristics of a mineral coating on its ability to resist to the biofouling"	58 - Srinivasan S. "A Review Of Fibre Optic Sensor Techniques For Monitoring Corrosion Activity In Concrete"		
16:00	Coffee Break				
	DUR-3 - Nilsson	PPR-3 - Yotte			
16:30	<b>66 - Darquennes A.</b> "Early age autogeneous behaviour of slag cement concrete under free and isothermal conditions"	<b>26 - Henriques D.F.</b> "Combined Performance Of Boron And Consolidation Products In Timber Degraded By Fungi"			
16h:50	<b>35 - Leklou N.</b> "Effect of wetting-drying cycles of mortars samples affected by DEF"	<b>40 - Merouane A.</b> "Manufacture of sulphate resistance cement at low temperature by using Algerian phosphogypsum as mineralyzer"			
17:10	<b>42 - Moreno E.</b> "Effect of the curing time in the durability of the concrete cover"	<b>77 - Pel L.</b> "Principles and efficiency of salt extraction by poulticing: an NMR study"			
17:30	<b>53 - Santhanam M.</b> "Effect of Solution Concentration on the Attack of Concrete by Combined Sulphate and Chloride Solutions"	<b>32 - Lameche S.</b> "Electrochemical behavior of Al, Al-Zn and Al-Zn-Sn materials in sodium chloride solutions"			

## DAY 2 : APRIL, 29, 2010

	"Casoar Tadorne" Lecture Hall	"Héron" Lecture Room	"Les Baleines" Lecture Room
09:00	Plenary Session 3 : J.P. Korb (Ecole Polytechnique) "Continuous multi-scale NMR investigation of microstructure evolution of cementitious materials"		
	TPM-1 - Marchand / Loukili	PMR-1 - Balayssac	CASE-1 - Moczko
09:40	<b>78 - Pel L.</b> "The formation of meta-stable sodium sulphate heptahydrate in porous materials as studied by NMR"	<b>15 - Breysse D.</b> "Modelling of random temperature and humidity variations in atlantic environment"	<b>41 - Miyazato S.</b> "Report On Research Project By Jsce-331"
10:00	<b>10 - Ben Fraj A.</b> "Investigating the diffusion of chloride ions in cementitious systems at early ages using EDS analysis"	<b>65 - Chaplain M.</b> "Modelling time to failure of notched beams under random humidity variations of Atlantic environment"	<b>18 - Del Grosso A.</b> "Requalification of the offshore port of Manfredonia A case history for structural assessment and retrofit"
10:20	<b>13 - Bourbatache K. "Application</b> of the periodic homogenization technic to ionic transfer in cimentitious materials"	<b>4 - Bastidas E.</b> "Modeling and sensitivity analysis of maintenance of chloride-contaminated RC structures by cover rebuilding"	<b>17 - Antunes A. de C.</b> "Preliminar diagnosis of the 'Cais das Colunas', Lisbon, Portugal : State of conservation of the historical limestone quay"
10:40	<b>23 - Friedmann H.</b> "Macroscopic modelling of chloride ingress through cement based materials: study of electrical double layer effect"	<b>5 - Bastidas E.</b> "Probabilistic modeling of concrete cover thickness: characterization from image analysis and study of its influence on the probability of corrosion initiation"	<b>49 - Plagge R.</b> "Detection of moisture and salt in historical stonework at a marine costal site"
11:00	Coffee Break		
	TPM-2 - Khelidj	PMR & DBAM - Melchers	NDT-3 - Villain
11:30	<b>44 - Nicot F.</b> "Micromechanical modeling of geomaterials: multi physical couplings and degradation"	<b>72 - Boéro J.</b> "Stochastic modelling of corrosion fields used for the reliability calculation of metallic port structures"	<b>14 - Breysse D.</b> "Non destructive assessment of concrete strength: the challenge of calibration"
11:50	<b>48 - Plagge R.</b> "Hygrothermal material property functions for numerical simulation tools"	<b>6</b> - <b>Bastidas E.</b> "Sustainability of maintenance strategies for RC structures subjected to chloride ingress: experimental data and probabilistic analysis within the MAREO Project"	<b>34 - Lataste J.F.</b> "Assessment of debonding and delamination in reinforced concrete structure by means of NDT"
12:10	<b>74 - Deif A.</b> "Evaluation of concrete chloride diffusion coefficients from AgNO3 spray and titration measurements"	<b>7 - Bastidas E.</b> "Stochastic approach for the optimization of inspection intervals of RC structures subjected to chloride penetration"	<b>73 - Ghosh B.</b> "Detection of pitting corrosion in steel using image processing"

### 12:30 LUNCH

14:00	14:00 Plenary Session 4 : M. Salta (LNEC) "Damage, maintenance and repair of steel structures"				
	DURATINET Technical Session - Yotte / Amiri	TPM-3 - Rivard	RILEM Session - Nilsson		
14:40	38 - Marques P. "The Relevance Of A Proficient Inspection Plan In	45 - Nilsson L.O. "Chloride redistribution after concrete repair of marine	29 - Kamali B.S. "Multi-scale modeling of mortar leaching: effects of		
	Rehabilitation Projects – Durability Side (7 bridges and 1 quay)"	concrete"	mechanical and transport properties"		
15:00	55 - Schoefs F. "Probabilistic of corrosion process along French coasts: a	37 - Mercado H. "Two ways to measure the diffusion coefficient of	39 - McCarter W.J. "Conductivity Sensors To Monitor Cover-zone		
	multiscale modeling from inspection data"	chloride"	Performance"		
15:20	71 - Boero J. "Decision-making system based on risk analysis for	60 - Trabelsi A. "Characterization of steel corrosion in cement mortar by	43 - Nanukuttan S. "The use of novel Non-Destructive methods for		
	sustainable management of civil engineering infrastructures"	Electrochemical Impedance Spectroscopy"	quality control and performance evaluation of concrete structures"		
15.40	Coffee Breek				
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16:10	Audouin Dubreuil A. "Inventory of the Ré Island Bridge"	2 - Al-Kutti W.A. "Effect of axial compressive damage on chloride	24 - Gullkers J. "Development of Guidelines for the Assessment of		
		migration through concrete subjected to marine environment"	Residual Service Life of Existing Reinforced Concrete Structures"		
16:30	Capra B. "Risk management and maintenance optimization of seaside	8 - Belarouci A. "Influence of temperature on Transfer of Chlorides Ions			
	nuclear cooling piping systems"	In Concrete"			

### DAY 3 : APRIL, 30, 2010

"Casoar Tadorne" Lecture Hall

"Héron" Lecture Room

#### 09:00 Plennary Session 5 : M. Basheer (U. Belafast)

CC-1 - Carcasses

- 09:40 54 Santos A. "Inhibition of internal expansive reactions in cement based materials with mineral additions"
- 10:00 28 Kacimi L. "Manufacture Of High Reactive Belite Cement And Durable In Corrosive Conditions By Using Fly Ash Waste"
- 10:20 31 Kherbache S. "Use Of Crushed Sand For The Concretes"

10:40	Coffee Break
	CC-2 - Carcasses
11:10	63 - Younsi A. "Mix design and carbonation of concrete with high substitution of cement by fly ash"
11:30	<b>11 - Bendjillali K.</b> "Improvement of the Mechanical Behavior of Limestone Mortars by the Incorporation of Synthetic Fibers Waste"
11:50	<b>25 - Hamami A.</b> "Influence of mix proportions on microstructure and gas permeability of cementitious materials : experimental study on pastes and mortars"
12:10	LUNCH
14:00	
15:00	

## **LEGEND OF THE SESSIONS**

DUR-1	Durability - Session 1
DUR-2	Durability - Session 2
DUR-3	Durability - Session 3
PPR-1	Prevention, Protection and Repair - Session 1
PPR-2	Prevention, Protection and Repair - Session 2
PPR-3	Prevention, Protection and Repair - Session 3
CASE-1	Case Studies

NDT-1	Non destructive testing - Session 1
NDT-2	Non destructive testing - Session 2
NDT-3	Non destructive testing - Session 3
CC-1	Cement and Concrete - Session 1
CC-2	Cement and Concrete - Session 2
PMR	Probabilistic modelling and reliability
DBAM	Decision, Maintenance, Asset management

# **SPONSORS**



















