

ICDS12 - GENERAL PROGRAMME

29 th May				
9-00	13-00	COURSE NDT		
13-00	14-00			
14-00	18-00	COURSE NDT		
30 th May				
9-00	13-00	COURSE NDT		
14-00	17-00	ICDS12 Registration	DURATINET WORKSHOP	
17-00	Welcoming reception			
31 th May				
		ROOM 1	ROOM 2	ROOM 3
9-00	9-30	Opening Session		
9-30	10-00	Keynote 1		
10-00	11-00	F1	A1	
11-00	11-15			
11-15	11-45	Keynote 2		
11-45	13-15	B1	C1	P1
13-15	14-15			
14-15	14-45	Keynote 3		
14-45	16:15	D1	C2	
16-15	16-30			
16-30	17-00	Keynote 4		
17-00	18-30	A2	B2	P2
20-00	Conference Dinner			
1 th June				
9-00	10-45	F2		
10-45	11-00			
11-00	11-30	Keynote 5		
11-30	13-00	A3	A4	
13-00	14-15			
14-15	14-45	Keynote 6		
14-45	15-45	D2	TDS	
15-45	16-00			
16-00	16-30	Keynote 7		
16-30	18-00	E		
18-00	18-30	Awards & Closing Session		

Note: simultaneous translation will be available on sessions D2 and E

LEGEND		
THEME A	DURABILITY	
THEME B	ASSESSMENT& INSPECTION	
THEME C	REPAIR	
THEME D	MAINTENANCE & MONITORING	
THEME E	SUSTAINABILITY	
THEME F	CASE STUDY	
POSTERS	ALL THEMES	
	TECHNICAL DEMONSTRATION SESSION (TDS)	
	SOCIAL PROGRAMME	

ICDS12 TECHNICAL SESSIONS

KEYNOTES

May 31 th			
1	9:30-10:00	<u>Júlio Appleton</u>	Design for durability of concrete structures
2	11:15-11:45	<u>Franck Schoefs</u>	Degradation models and measurement of corrosion in marine environment: state of the art and challenges
3	14:15-14:45	<u>Manuela Salta</u>	Durable structures. What we need to learn more!
4	16:30-17:00	<u>Carmen Andrade</u>	Limit state calculation of reinforcement corrosion
June 1 st			
5	11:00-11:30	<u>Karim Ait-Mokhtar</u>	Mechanisms involved in chloride transport through reinforced concrete – simulations of their effects on corrosion initiation
6	14:15-14:45	<u>Muhammed Basheer</u>	Novel sensors for monitoring the durability of concrete structures
7	16:00-16:30	<u>Arlindo Gonçalves</u>	Sustainability of construction materials. An overview

SESSION A1

May 31th	Chairpersons: Ramón Nóvoa and António Baptista	
10:00-10:15	<u>M. J. Correia</u> and M. M. Salta	Stainless steel rebar for long service life
10:15-10:30	<u>J.A.F.O. Correia</u> , A.M.P. Jesus and A. Fernández-Canteli	Probabilistic fatigue behaviour of a structural detail of puddle iron from the Eiffel bridge
10:30-10:45	<u>Hugo Pernetá</u> , Maria João Correia and Manuela Salta	Corrosion protection of steel structures
10:45-11:00	<u>M. J. F. Marques</u> , I. N. Alves, R. P. Gonçalves and T. C. Diamantino	Assessment of corrosion in offshore environment. Study in windfloat prototype: Wind_enermar project

SESSION A2

May 31th	Chairpersons: Carmen Andrade and Paula Rodrigues	
17:00-17:15	<u>S. Nanukuttan</u> , M. Basheer and C. Lagan	Effect of climate change on concrete carbonation
17:15-17:30	<u>J. Mai-Nhu</u> , A. Sellier, P. Rougeau, F. Duprat and M. Salta	Numerical tool for durability assessment of concrete structures subjected to aggressive environment
17:30-17:45	<u>Rui Neves</u> , Fernando Branco and Jorge de Brito	A simple durability design method for carbonation-induced corrosion
17:45-18:00	<u>C. Green</u> , S. Nanukuttan and M. Basheer	Role of performance indicators in assessing the state-of-health of concrete infrastructure
18:00-18:15	<u>M.T. Pinheiro-Alves</u>	Limitations of durability of portland cement-based concretes due to sulphate attack
18:15-18:30	<u>A.Velosa</u> , C. Figueiredo, P. Cachim and O. Cascudo	Metakaolin influence in chloride penetration in concrete

SESSION A3

June 1st	Chairpersons: Karim Ait-Mokhtar and Maria Sofia Ribeiro	
11:30-11:45	<u>Jean Herisson</u> , Marielle Guéguen, Eric D. van Hullebusch, Pascal Tacquet and Thierry Chaussadent	Reaching more sustainable materials for sewer networks trough an accelerated test
11:45-12:00	<u>João P. Sousa</u> , Susana Cabral-Fonseca and João R. Correia	Environmental degradation of GFRP pultruded profiles made of polyester and vinylester resins
12:00-12:15	<u>Ola Skjølsvold</u> and Eva Rodum	Application of water vapour tight coatings on early age (green) concrete
12:15-12:30	<u>David James Wilson</u>	Controlled permeability formwork liners in constructing wastewater treatment plants
12:30-12:45	<u>A. Soufi</u> , P-Y. Mahieux, A. Aït-Mokhtar and O. Amiri	Durability performance based approach of mortars patch repair
12:45-13:00	<u>Eduardo Teixeira</u>	Behavior of anchor systems in cracked concrete under tension loading

SESSION A4

June 1st	Chairpersons: Jorge de Brito and Géraldine Villain	
11:30-11:45	<u>Mahfoud Tahlaïti</u> , Stéphanie Bonnet and Pierre Mounanga	Hydration rate and compressive strength of metakaolin-cement blended mortars cured at different temperatures
11:45-12:00	B. Díaz, <u>X.R. Nóvoa</u> , B. Puga and V. Vivier	Chloride transport through cementitious membranes using pulsed current
12:00-12:15	<u>José Santos</u> and A. Abel Henriques	Ductility of damaged reinforced concrete beams
12:15-12:30	<u>A. Belarouci</u> , F. Ghomari, A. Khelidj and A. Bezzar	Concrete building in marine environment – prevention of chloride induced reinforcement corrosion
12:30-12:45	<u>A. Soufi</u> , P-Y. Mahieux, A. Aït-Mokhtar and O. Amiri	Effect of microclimate on the durability of concrete structures
12:45-13:00	<u>W. V. Beiral</u> , S.G. Gonzales and D.P. Dias	Theoretical and experimental study of the shear beams reinforced with bars fiber glass

SESSION B1

May 31th	Chairpersons: Luís Oliveira Santos and Joana Sousa Coutinho	
11:45-12:00	<u>P.Pereira</u> and A.Costa	Concrete structures durability design – probabilistic approach
12:00-12:15	V. Garnier, <u>Z.M Sbartai</u> , JP Balayssac, X Derobert, D. Breysses, B. Piwanowski, J. Salin and V. Fardeau	Analysis and capitalisation for the diagnosis of constructions
12:15-12:30	<u>Jorge Rodrigues</u> and Maíra Ledesma	Dynamic tests of a bridge with the deck retrofitted with external pre-stressing
12:30-12:45	<u>António Costa</u> , Júlio Appleton, Zita Lourenço and Manuel Coito	Durability assessment of concrete structures in marine environment – case studies
12:45-13:00	<u>João Santos</u> , André D. Orcesi, Paulo Silveira and Weichao Guo	Real time assessment of rehabilitation works under operational loads
13:00-13:15	<u>António Santos Silva</u> , Dora Soares, João Custódio and António Bettencourt Ribeiro	Prognosis of internal expansive reactions in concrete structures

SESSION B2

May 31th	Chairpersons: Franck Schoefs and Maria João Correia	
17:00-17:15	<u>Raelize du Plooy</u> and Azadeh Attari	Concrete condition assessment of the Mizen Head bridge, Ireland: a comparative study of various destructive and non-destructive methods
17:15-17:30	Laurent Van Parys, Fabrice Dagrain and <u>Laurent Léoskool</u>	The recourse to cutting-based tomography for quantifying the surface strengthening of altered stones
17:30-17:45	<u>Géraldine Villain</u> , Xavier Dérobert and Amine Ihamouten	Proposal of a calibration protocol to determine the concrete water content on site with Non Destructive capacitive technique
18:00-18:15	<u>Madalena Teles</u>	Petrographic study of concrete: a contribution to a European standard
18:15-18:30	<u>F. Schoefs</u> , T. V. Tran, , E. Bastidas-Arteaga, G. Villain, X. Derobert, A.J. O'Connor and S. Bonnet	Optimization of non destructive testing when assessing stationary stochastic processes: application to water and chloride content in concrete

SESSION C1

May 31th	Chairpersons: Sylvie Yotte and António Santos Silva	
11:45-12:00	<u>Laurent Léoskool</u> , Laurent Van Parys and Sophie Rouge	Compatible mortar for masonry restorations: discrete optimization for equivalent strength & colour prescription
12:00-12:15	<u>M. R. Veiga</u> , A. Santos Silva, M. Tavares, A. R. Santos and N. Lampreia	Durable mortars of a portuguese military structure from the XVI th century
12:15-12:30	<u>A. Gameiro</u> , A. Santos Silva, R. Veiga, A. Velosa, P. Faria	Lime-metakaolin mortars for historical buildings repair: study of the hardening reaction
12:30-12:45	<u>C. Borges</u> , A. Santos Silva and R. Veiga	Role of aggregates in air lime mortars durability: influence of curing conditions
12:45-13:00	<u>P. Faria</u> , V. Silva, J. Grilo, D. Mergulhão, R. Antunes, J. Carneiro, T. Branco, A. Santos Silva and R. Veiga	Lime-based mortars for rendering and repointing
13:00-13:15	<u>F. Cunha</u> , S. Rana, G. Vasconcelos' R. Figueiro and S. Abreu	Retrofitting masonry infill walls with novel fibrous structures

SESSION C2

May 31th	Chairpersons: Rita Moura and Xavier Dérobert	
14:45-15:00	<u>M. Vieira</u> and A.R. Bettencourt	Self-compacting concrete technology as a competitive repair option
15:00-15:15	<u>António Bettencourt Ribeiro</u>	Shrinkage-compensating concrete: behavior at early age and long term of commercial products
15:15-15:30	<u>Tânia Dias</u> , Maria Sofia Ribeiro, Orlando Pereira and Elsa Pereira	Polymer cement mortar in repair. Action on corrosion rates
15:30-15:45	<u>M. Želinková</u>	Inorganic protective coatings for durability of concrete
15:45-16:00	<u>Liliana Baltazar</u> , Maria Paula Rodrigues and João Ramôa Correia	Concrete hydrophobic protection: short-term performance and durability
16:00-16:15	<u>Ahmed El Shami</u> , Stéphanie Bonnet, Marta Choinska, Pierre Mounanga and Abdelhafid Khelidj	Predicting long-term durability of steel reinforced concrete with corrosion inhibitors

SESSION D1

May 31th	Chairpersons: Paulo Silveira and Laurent Gaillet	
14:45-15:00	<u>F. Schoefs</u> , K. T. Le and F. Lanata	Assessment of uncertain soil properties for complex infrastructures from monitoring
15:00-15:15	<u>J. Valença</u> , D. Dias-da-Costa, L. Gonçalves, E. Júlio and H. Araújo	Automatic concrete health monitoring
15:15-15:30	<u>Jorge Rodrigues</u> and Máira Ledesma	Monitoring of temperature variations in the Tagus river suspension bridge
15:30-15:45	<u>S. Srinivasan</u> , P. A. M. Basheer, S. Nanukuttan and W. J. McCarter	Use of a multi-electrode sensor to monitor early age properties of concrete
15:45-16:00	Diana Ribeiro, João Almeida Garrett, Sónia Duarte, Lina Nunes and <u>José S. Machado</u>	Probability of damage in timber structures by monitoring of biological activity - MONITOR project
16:00-16:15	P. Cahil, E. Allen, A. O'Connor and <u>V. Pakrashi</u>	Variation of stress in arch structures due to variable concrete pressure models

SESSION D2

June 1st	Chairpersons: Muhammed Basheer and Daniel Dias da Costa	
14:45-15:00	<u>Luís Ribeiro Freire</u> and Carlos Santinho Horta	SGOA – Balance of a cycle of inspections 2007-2011
15:00-15:15	<u>Joana Oliveira Almeida</u> , Paulo Teixeira and Raimundo Delgado	Life-cycle cost optimization in highway concrete bridges management
15:15-15:30	<u>Ana Isabel Silva</u>	Portuguese railway network – bridge inspection and maintenance strategy
15:30-15:45	<u>João Luís Amado</u> and Luís Ribeiro Freire	Testing on bridges within the scope of management of a road network

SESSION E

June 1st	Chairpersons: Arlindo Gonçalves and Marta Choinska	
16:30-16:45	<u>Ana Brandão de Vasconcelos</u> , Manuel Pinheiro and Armando Manso	Sustainable energy buildings refurbishment: the need for developing a decision model tool
16:45-17:00	<u>B. Touil</u> , F. Ghomari, A. Bezzar, A. Khelidj and S. Bonnet	Effect of natural pozzolan on local's concrete sustainability
17:00-17:15	Rui Vasco Silva, <u>Jorge de Brito</u> and Nabajyoti Saikia	Influence of the curing conditions on the durability-related performance of concrete with selected plastic waste aggregates
17:15-17:30	Sara de Castro Fernandes and <u>Jorge de Brito</u>	Evaluation of the durability of concrete made with grinded glass aggregates
17:30-17:45	<u>Ana Mafalda Matos</u> , Telma Ramos and Joana Sousa-Coutinho	Sulphate attack on eco mortar
17:45-18:00	<u>R. B. Figueira</u> , E. V. Pereira, C. J. R. Silva and M. M. Salta	Organic-inorganic hybrid coatings for corrosion protection of steel

SESSION F1

May 31th	Chairpersons: Júlio Appleton and António Ribeiro Bettencourt	
10:00-10:15	Hugo Marques, <u>Diogo Bezerra</u> , Raquel Campos e Matos	Oporto's sports pavilion – refurbishment and rehabilitation project
10:15-10:30	João Pinho, <u>José David</u> , Manuel Lorena and Alexandre Portugal	Strengthening and repair of Lanheses bridge
10:30-10:45	<u>Rui Vaz Rodrigues</u> and Mario Fellrath	The new Swiss Graduate School of Public Administration – case study
10:45-11:00	João Pinho, José David and <u>Ricardo Antunes</u>	Strengthening and repair of Mosteirô bridge

SESSION F2

June 1st	Chairpersons: Maria rosário Veiga and Sree Nanuktan	
9:00-9:15	<u>Pedro Providência</u> , Cristina Borges, Artur Corte-Real, Martha Tavares, Rosário Veiga and A. Santos Silva	The monastery of “Santa Clara-a-Velha” – the importance of the study of the wall coverings for the interpretation of the monument
9:15-9:30	<u>Rodrigo F. Terezo</u> and Carlos Dion de M. Teles	Evaluation of timber structures of Santa Cruz headquarters troop
9:30-9:45	<u>Ioan Pепенar</u>	Two case studies on corrosion damage of bridges
9:45-10:00	<u>Carlos Mesquita</u>	Inspection and testing of durability of the concrete structure of a school's buildings
10:00-10:15	F. Galeković, L. Marinac, V. Perić, <u>B. Zec</u> , M. Serdar and D. Bjegović	Comprehensive repair study of historic building in downtown Zagreb – case study
10:15-10:30	<u>José Paulo Costa</u> , António Couceiro and Santinho Horta	Repair and conservation works on Tagus suspension bridge
10:30-10:45	<u>Zita Lourenço</u> , Henrique Alves, António Martins and Cruz Ferreira	Cathodic prevention of reinforced concrete structure – Cais do Jardim do Tabaco - Lisbon

GENERAL DISTRIBUTION OF PAPERS BY SESSIONS

SESSIONS		PAPERS
THEME A: DURABILITY	A1	54, 27, 48, 98
	A2	92, 80, 10, 97, 83, 57
	A3	8, 63, 39, 22, 89, 26
	A4	88, 56, 11, 14, 23, 20
THEME B: ASSESSMENT	B1	15, 19, 29, 5, 30, 46
	B2	75, 70, 31, 91, 2
THEME C: REPAIR	C1	67, 37, 44, 7, 76, 18
	C2	72, 81, 68, 13, 62, 38
THEME D: MANAGEMENT, MAINTENANCE & MONITORING	D1	55, 9, 28, 95, 25, 1
	D2	86, 34, 99, 87
THEME E: SUSTAINABILITY	E	3, 45, 52, 53, 59, 85
THEME F: CASE STUDIES	F1	79, 61, 78, 60
	F2	71, 77, 41, 6, 40, 35, 43
POSTER SESSION	P1	51, 12, 4, 93, 24, 94, 49, 50, 73, 36
	P2	33, 69, 84, 64, 65, 66, 16, 17, 21
TECHNICAL DEMONSTRATION SESSION	TDS	74, 82

Note 1: Each author will have 15m for the presentation (13m) and discussion (2m) of their paper. In each technical session the discussion of papers will take place at the end of the session.

LIST OF PRESENTATIONS

Nº	AUTHORS	TITLE
1	Paul Cahil, Eoin Allen, Alan O'Connor and <u>Vikram Pakrashi</u>	VARIATION OF STRESS IN ARCH STRUCTURES DUE TO VARIABLE CONCRETE PRESSURE MODELS
2	<u>Schoefs F.</u> , Tran T.V., Bastidas-Arteaga E., Villain G. b, Derobert X., O'Connor A.J., Bonnet S	OPTIMIZATION OF NON DESTRUCTIVE TESTING WHEN ASSESSING STATIONARY STOCHASTIC PROCESSES: APPLICATION TO WATER AND CHLORIDE CONTENT IN CONCRETE
3	<u>Ana Vasconcelos</u> , Manuel Pinheiro and Armando Manso	SUSTAINABLE ENERGY BUILDINGS REFURBISHMENT: THE NEED FOR DEVELOPING A DECISION MODEL TOOL
4	<u>Anderson Augusto Müller</u> ; Cristiane Arpino Silva; Fábio Costa Magalhães; Letícia Ramos Berr; Denise Carpena Coitinho Dal Molin; João Luis Campagnolo	SHEAR REINFORCEMENT IN CONCRETE BEAMS WITH VERTICAL STIRRUPS EMBEDDED
5	<u>António Costa</u> , Júlio Appleton, Zita Lourenço and Manuel Coito	DURABILITY ASSESSMENT OF CONCRETE STRUCTURES IN MARINE ENVIRONMENT – CASE STUDIE
6	<u>Carlos Mesquita</u>	INSPECTION AND TESTING OF DURABILITY OF CONCRETE STRUCTURE OF THE BUILDING OF A SCHOOL
7	<u>C.Borges</u> , A. Santos Silva and R. Veiga	ROLE OF AGGREGATES IN AIR LIME MORTARS DURABILITY: INFLUENCE OF CURING CONDITIONS
8	<u>Jean Herisson</u> , Marielle Guéguen, Eric D. van Hullebusch, Pascal Taquet, Thierry Chaussadent	REACHING MORE SUSTAINABLE MATERIALS FOR SEWER NETWORKS THROUGH AN ACCELERATED TEST
9	<u>J. Valença</u> , D. Dias-da-Costa, L. Gonçalves, E. Júlio, H. Araújo	AUTOMATIC CONCRETE HEALTH MONITORING
10	Rui Neves, Fernando Branco and Jorge de Brito	A SIMPLE DURABILITY DESIGN METHOD FOR CARBONATION-INDUCED CORROSION
11	<u>José Santos</u> and A. Abel Henriques	DUCTILITY OF DAMAGED REINFORCED CONCRETE BEAMS
12	<u>L. Almeida Santos</u> , I. Flores-Colen e M. Glória Gomes	IN-SITU TECHNIQUES FOR MECHANICAL PERFORMANCE AND DEGRADATION ANALYSIS OF RENDERING WALLS
13	<u>Želinková, M.</u>	INORGANIC PROTECTIVE COATINGS FOR DURABILITY OF CONCRETE
14	<u>Naïma TOULOUUM</u> , Ahmed BRARA	CONCRETE BUILDING IN MARINE ENVIRONMENT – PREVENTION OF CHLORIDE INDUCED REINFORCEMENT CORROSION
15	<u>P.Pereira</u> , A.Costa	CONCRETE STRUCTURES DURABILITY DESIGN – PROBABILISTIC APPROACH
16	<u>F. Schoefs</u> , A. Audouin-Dubreuil, A. Dary	INVENTORY OF STRUCTURES, MAINTENANCE PRACTICES AND FUTURE STAKES: FRENCH RESULTS OF THE TRANSNATIONAL ENQUEST OF DURATINET PROJECT
17	<u>Rute Fontinha</u> and Manuela Salta	NANOSTRUCTURED COATINGS FOR CONSTRUCTION METALLIC MATERIALS
18	<u>F. Cunha</u> , S. Rana, G. Vasconcelos, R. Fanguero and S. Abreu	RETROFITTING MASONRY INFILL WALLS WITH NOVEL FIBROUS STRUCTURES
19	V. Garnier, <u>Z.M Sbartai</u> , JP Balaýssac, X Derobert, D. Breysse, B. Piwanowski, J Salin, V. Fardeau	ANALYSIS AND CAPITALISATION FOR THE DIAGNOSIS OF CONSTRUCTIONS
20	<u>Beiral, W.V.</u> ; Garcia, S. L. G.; Dias, D.P.	THEORETICAL AND EXPERIMENTAL STUDY OF THE SHEAR BEAMS REINFORCED WITH BARS FIBER GLASS
21	M Sérifou, <u>Z.M Sbartai</u> , S Yotte, F Bos, D Breysse	STUDY OF CONCRETE MADE WITH RECYCLED FINE AND COARSE AGGREGATES
22	<u>David Wilson</u>	CONTROLLED PERMEABILITY FORMWORK LINERS IN CONSTRUCTING WASTEWATER TREATMENT PLANT
23	<u>Abdelghani Belarouci</u> , Fouad Ghomari, Abdelhafid Khelidj, Abdelillah bezzar	EFFECT OF MICROCLIMATE ON THE DURABILITY OF CONCRETE STRUCTURES
24	<u>Marie-Victoire</u> , V. Bouteiller, J. Montout, J-L. garciaz and E. Cailleux	PARAMETERS AFFECTING ON SITE CORROSION RATE EVALUATION
25	Diana Ribeiro, João Almeida Garrett, Sónia Duarte, Lina Nunes and <u>José S. Machado</u>	PROBABILITY OF DAMAGE IN TIMBER STRUCTURES BY MONITORING OF BIOLOGICAL ACTIVITY - MONITOR PROJECT
26	Eduardo Teixeira	BEHAVIOUR OF ANCHOR SYSTEMS IN CRACKED CONCRETE UNDER TENSION LOADING
27	<u>J.A.F.O. Correia</u> , A.M.P. Jesus and A. Fernández-Canteli	PROBABILISTIC FATIGUE BEHAVIOUR OF A STRUTURAL DETAIL OF PUDDLE IRON FROM THE VIANA BRIDGE
28	<u>Jorge Rodrigues</u> , Maíra Ledesma	MONITORING OF TEMPERATURE VARIATIONS IN THE TAGUS RIVER SUSPENSION BRIDGE
29	<u>Jorge Rodrigues</u> , Maíra Ledesma	DYNAMIC TESTS OF A BRIDGE WITH THE DECK RETROFITTED WITH EXTERNAL PRE-STRESSING
30	<u>João Santos</u> , André D. Orcesi, Paulo Silveira and Weichao Guo	REAL TIME ASSESSMENT OF REHABILITATION WORKS UNDER OPERATIONAL LOADS
31	<u>Géraldine Villain</u> , Xavier Dérobert and Amine Ihamouten	PROPOSAL OF A CALIBRATION PROTOCOL TO DETERMINE THE CONCRETE WATER CONTENT ON SITE WITH NON DESTRUCTIVE CAPACITIVE TECHNIQUE
33	<u>N.T Nguyen</u> , Z.M Sbartai, D Breysse, J-F Lataste, F Bos	EVALUATION AND MODELLING OF CONCRETE VARIABILITY USING NDT TECHNIQUES
34	<u>Joana Oliveira Almeida</u> , Paulo Teixeira and Raimundo Delgado	LIFE-CYCLE COST OPTIMIZATION IN HIGHWAY CONCRETE BRIDGES MANAGEMENT

Nº	AUTHORS	TITLE
35	<u>José Paulo Costa</u> , António Couceiro and Santinho Horta	REPAIR AND CONSERVATION WORKS ON TAGUS SUSPENSION BRIDGE
36	<u>Raquel Paula</u> , Pedro Colaço and Zita Lourenço	REHABILITATION OF A CHLORIDE CONTAMINATED CONCRETE STRUCTURE THROUGH DESALINATION
37	<u>Veiga, M. R.</u> , Santos Silva, A., Tavares, M., Santos, A. R., Lampreia N.	DURABLE MORTARS OF A PORTUGUESE MILITARY STRUCTURE FROM THE XVTH CENTURY
38	<u>Ahmed El Shami</u> ; Marta Choinska ; Stéphanie Bonnet ; Pierre Mounanga ; Abdelhafid Khelidj	PREDICTING LONG-TERM DURABILITY OF STEEL REINFORCED CONCRETE WITH CORROSION INHIBITORS
39	<u>Ola Skjølsvold</u> and Eva Rodum	APPLICATION OF WATER VAPOUR TIGHT COATINGS ON EARLY AGE (GREEN) CONCRETE)
40	F. Galeković ^a , L. Marinac ^a , V. Perić ^a , <u>B. Zec^a</u> , M. Serdar ^a , D. Bjegović ^a	COMPREHENSIVE REPAIR STUDY OF HISTORIC BUILDING IN DOWNTOWN ZAGREB – CASE STUDY
41	<u>Ioan Pepenar</u>	TWO CASE STUDIES ON CORROSION DAMAGE OF BRIDGES
43	<u>Zita Lourenço</u> , Henrique Alves, António Martins, Cruz Ferreira	CATHODIC PREVENTION OF REINFORCED CONCRETE STRUCTURE – CAIS DO JARDIM DO TABACO - LISBON
44	<u>A. Gameiro</u> , A. Santos Silva, R. Veiga, A. Velosa, P. Faria	LIME-METAKAOLIN MORTARS FOR HISTORICAL BUILDINGS REPAIR: STUDY OF THE HARDENING REACTION
45	<u>Mr B. Touil</u> , Pr F. Ghomari, Pr A. Khelidj and Dr S. Bonnet	EFFECT OF NATURAL POUZZOLANA ON LOCAL'S CONCRETE SUSTAINABILITY
46	<u>António Santos Silva</u> , Dora Soares, João Custódio e António Bettencourt Ribeiro	PROGNOSIS OF INTERNAL EXPANSIVE REACTIONS IN CONCRETE STRUCTURES
48	<u>Hugo Pernetá</u> , Maria João Correia, Paula Rodrigues, Elsa Pereira and Manuela Salta	CORROSION PROTECTION OF STEEL STRUCTURES
49	DURATINET WG3	DURATINET TECHNICAL GUIDE MAINTENANCE AND REPAIR OF STEEL STRUCTURES
50	DURATINET WG4	DURATINET TECHNICAL GUIDE MAINTENANCE AND REPAIR OF CONCRETE STRUCTURES
51	DURATINET WG2	TG DURATINET FOR MANAGEMENT OF STRUCTURES
52	Rui Vasco Silva, <u>Jorge de Brito</u> e Nabajyoti Saikia	INFLUENCE OF THE CURING CONDITIONS ON THE DURABILITY-RELATED PERFORMANCE OF CONCRETE WITH SELECTED PLASTIC WASTE AGGREGATES
53	Sara de Castro Fernandes, <u>Jorge de Brito</u>	EVALUATION OF THE DURABILITY OF CONCRETE MADE WITH GRINDED GLASS AGGREGATES
54	<u>Maria João Correia</u> and Manuela Salta	STAINLESS STEEL REBARS – SPECIFICATIONS, FACTS AND CURRENT CONSTRUCTION PRACTICES
55	<u>Schoefs F.</u> , Le K.T., Lanata F.	ASSESSMENT OF UNCERTAIN SOIL PROPERTIES FOR COMPLEX INFRASTRUCTURES FROM MONITORING
56	B. Díaz, <u>X.R. Nóvoa</u> , B. Puga, V. Vivier	CHLORIDE TRANSPORT THROUGH CEMENTITIOUS MEMBRANES USING PULSED CURRENT
57	<u>A. Velosa</u> , C. Figueiredo, P. Cachim and O. Cascudo	METAKAOLIN INFLUENCE IN CHLORIDE PENETRATION IN CONCRETE
59	<u>Ana Mafalda Matos</u> , Telma Ramos and Joana Sousa-Coutinho	SULPHATE ATTACK ON ECO MORTAR
60	<u>João Pinho</u> , José David and <u>Ricardo Antunes</u>	STRENGTHENING AND REPAIR OF MOSTEIRÔ BRIDGE
61	João Pinho, <u>José David</u> , Manuel Lorena and Alexandre Portugal	STRENGTHENING AND REPAIR OF LANHESES BRIDGE
62	<u>Liliana Baltazar</u> , Maria Paula Rodrigues and João Ramôa Correia	CONCRETE HYDROPHOBIC PROTECTION: SHORT-TERM PERFORMANCE AND DURABILITY
63	<u>João P. Sousa</u> , Susana Cabral-Fonseca and João R. Correia	ENVIRONMENTAL DEGRADATION OF GFRP PULTRUDED PROFILES MADE OF POLYESTER AND VINYLESTER RESINS
64	João Feiteira and <u>Maria Sofia Ribeiro</u>	POLYMER ACTION ON THE ALKALI-SILICA REACTION IN CEMENT MORTAR BARS – DAMAGE ASSESSMENT
65	<u>Maria Sofia Ribeiro</u> and Augusto Gomes	REVIEW AND DISCUSSION OF POLYMERS IN CEMENT MATERIALS FOR THE REPAIR OF CONCRETE STRUCTURES
66	João Feiteira and <u>Maria Sofia Ribeiro</u>	CAPILLARY PORE VOLUME AND WATER ABSORPTION OF POLYMER-MODIFIED CEMENT MORTARS
67	<u>Laurent Léoskool</u> , Laurent Van Parys and Sophie Rouge	COMPATIBLE MORTAR FOR MASONRY RESTORATIONS: DISCRETE OPTIMIZATION FOR EQUIVALENT STRENGTH & COLOUR PRESCRIPTION
68	<u>Tânia Dias</u> , Maria Sofia Ribeiro, Orlando Pereira and Elsa Pereira	POLYMER CEMENT MORTAR IN REPAIR, ACTION ON CORROSION RATES
69	<u>Jérémy Colas</u> , Thierry Chaussadent, Loic Divet, Stéphane Lavaud, Jacques Burdin, Nathalie Monin	INNOVATIVE SOLUTIONS FOR THE USE IN CONCRETE OF EXCAVATED MATERIALS FROM LYON-TURIN RAILWAY LINK TUNNEL
70	Laurent Van Parys, Fabrice Dagrain and <u>Laurent Léoskool</u>	THE RECOURSE TO CUTTING-BASED TOMOGRAPHY FOR QUANTIFYING THE SURFACE STRENGTHENING OF ALTERED STONES
71	<u>Pedro Providência</u> , Cristina Borges, Milene Gil, Artur Corte-Real, Martha Tavares, Rosário Veiga and Santos Silva	THE MONASTRY OF “SANTA CLARA –A_VELHA” IMPORTANCE OF THE STUDY OF THE COVERINGS FOR THE INTERPRETATION OF THE MONUMENT
72	<u>VIEIRA, M.</u> , and BETTENCOURT A.R	SELF-COMPACTING CONCRETE TECHNOLOGY AS A COMPETITIVE REPAIR OPTION

Nº	AUTHORS	TITLE
73	<u>Tânia Rosado</u> , Patrícia Carvalho, Dora Teixeira, A. Candeiasa and A.T. Caldeira	BEVOTEC12 – A NOVEL BIOCIDES FOR MURAL PAINTINGS AND CULTURAL HERITAGE CONSERVATION
74	<u>Helena Beleza</u>	CORROSION PROTECTION FOR STEEL STRUCTURES
75	<u>Raelize du Plooy</u> , Azadeh Attari, Ciaran McNally, Mark Richardson, Sergio Palma Lopes, Géraldine Villain and Xavier Dérobert	CONCRETE CONDITION ASSESSMENT OF THE MIZEN HEAD BRIDGE, IRELAND: A COMPARATIVE STUDY OF VARIOUS DESTRUCTIVE AND NON-DESTRUCTIVE METHODS
76	<u>P. Faria</u> , V. Silva, J. Grilo, D. Mergulhão, R. Antunes, J. Carneiro, T. Branco, A. Santos Silva, R. Veiga	LIME-BASED MORTARS FOR RENDERING AND REPOINTING
77	<u>Rodrigo F. Terezo</u> , Carlos Dion de M. Teles	EVALUATION OF TIMBER STRUCTURES OF SANTA CRUZ HEADQUARTERS TROOP
78	<u>Rui Vaz Rodrigues</u> , Mario Fellrath	THE NEW SWISS GRADUATE SCHOOL OF PUBLIC ADMINISTRATION – CASE STUDY
79	Hugo Marques, <u>Diogo Bezerra</u> , Raquel Campos E Matos	OPORTO'S SPORTS PAVILION – REFURBISHMENT AND REHABILITATION PROJECT
80	<u>J. Mai-Nhu</u> , A. Sellier, P. Rougeau, F. Duprat and M. Salta	NUMERICAL TOOL FOR DURABILITY ASSESSMENT OF CONCRETE STRUCTURES SUBJECTED TO AGGRESSIVE ENVIRONMENT
81	<u>António Bettencourt Ribeiro</u>	SHRINKAGE-COMPENSATING CONCRETE: BEHAVIOR AT EARLY AGE AND LONG TERM OF COMMERCIAL PRODUCTS
82	<u>André Rosa</u>	REFURBISHMENT OF ROOFS USING POLIURETHANE BASED LIQUID MEMBRANES
83	<u>Pinheiro-Alves, M.T.</u>	LIMITATIONS OF DURABILITY OF PORTLAND CEMENT-BASED CONCRETES DUE TO SULPHATE ATTACK
84	Nuno Brito, <u>Maria Sofia Ribeiro</u> and Carla Costa	A NEW RESEARCH PROGRAM ON FCC IN CEMENT MORTARS FOR STRUCTURAL REPAIR
85	<u>R. B. Figueira</u> , E. V. Pereira, C. J. R. Silva, M. M. Salta	ORGANIC-INORGANIC HYBRID COATINGS FOR CORROSION PROTECTION OF STEEL
86	<u>Luís Ribeiro Freire</u> , Carlos Santinho Horta	SGOA – BALANCE OF A CYCLE OF INSPECTIONS 2007-2011
87	<u>João Luís Amado</u> , Luís Ribeiro Freire	TESTING ON BRIDGES WITHIN THE SCOPE OF MANAGEMENT OF A ROAD NETWORK
88	<u>Mahfoud TAHLAITI</u> , Stéphanie BONNET and Pierre MOUNANGA	HYDRATION RATE AND COMPRESSIVE STRENGTH OF METAKAOLIN-CEMENT BLENDED MORTARS CURED AT DIFFERENT TEMPERATURES
89	<u>A. Soufi</u> , P-Y. Mahieux, A. Aït-Mokhtar and O. Amiri	DURABILITY PERFORMANCE BASED APPROACH OF MORTARS PATCH REPAIR
91	<u>Madalena Teles</u>	PETROGRAPHIC STUDY OF CONCRETE: A CONTRIBUTION TO A EUROPEAN STANDARD
92	<u>S. Nanukuttan</u> , M. Basheer and C. Lagan	EFFECT OF CLIMATE CHANGE ON CONCRETE CARBONATION
93	<u>Leandro Dussarrat Brito</u> , Carlito Calil Junior	EVALUATION BY TECHNIQUE OF VISUAL INSPECTION OF THE ROOF STRUCTURE OF TIMBER "TYPE HAUFF" IN GYMNASIUM "SÃO CARLOS CLUBE" IN BRAZIL
94	<u>Leandro Dussarrat Brito</u> , Carlito Calil Junior	EVALUATION BY TECHNIQUE OF VISUAL INSPECTION OF THE BRIDGE PEDESTRIANS PENSIL IN PIRACICABA IN BRASIL
95	<u>S Srinivasan</u> , PAM Basheer, S Nanukuttan and WJ McCarter	USE OF A MULTI-ELECTRODE SENSOR TO MONITOR EARLY AGE PROPERTIES OF CONCRETE
97	<u>C. Green</u> , S. Nanukuttan and M. Basheer	ROLE OF PERFORMANCE INDICATORS IN ASSESSING THE STATE-OF-HEALTH OF CONCRETE INFRASTRUCTURE
98	<u>M. J. F. Marques</u> ; I. N. Alves; R. P. Gonçalves; T. C. Diamantino	ASSESSMENT OF CORROSION IN OFFSHORE ENVIRONMENT. STUDY IN WINDFLOAT PROTOTYPE: WIND_ENERMAR PROJECT
99	<u>Ana Isabel Silva</u>	PORTUGUESE RAILWAY NETWORK – BRIDGE INSPECTION AND MAINTENANCE STRATEGY