
**DURABLE STRUCTURES**

LNEC • Lisbon • 31 May - 1 June 2012

**Special issue publication in scientific journals**



**Scientific journals**

- *European Journal of Environmental and Civil Engineering*
- *Structure and Infrastructure Engineering Maintenance, Management, Life-Cycle Design & Performance*
- *Restoration of Buildings and Monuments*

**Proposals received ( with full paper received in english): 37**

**Plan for full paper review :**

During **June**, the Scientific Committee will do the prior review and selection of papers, and on next **July**, the authors will receive information on the selected papers which will also receive the reviewers comments.


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**YOUNG AUTHORS AWARDS**


ICDS12		DURABLE STRUCTURES		LNEC • Lisbon • 31 May - 1 June 2012	
<b>Candidates to “Young authors award”</b>					
Nº	AUTHORS	TITLE			
3	Ana Vasconcelos, Manuel Pinheiro and Armando Manso	SUSTAINABLE ENERGY BUILDINGS REFURBISHMENT: THE NEED FOR DEVELOPING A DECISION MODEL TOOL			
8	Jean Herisson, Marielle Guéguen, Eric D. van Hullebusch, Pascal Taquet, Thierry Chaussadent	REACHING MORE SUSTAINABLE MATERIALS FOR SEWER NETWORKS THROUGH AN ACCELERATED TEST			
9	J. Valença, D. Dias-da-Costa, L. Gonçalves, E. Júlio, H. Araújo	AUTOMATIC CONCRETE HEALTH MONITORING			
11	José Santos and A. Abel Henriques	DUCTILITY OF DAMAGED REINFORCED CONCRETE BEAMS			
12	L. Almeida Santos, I. Flores-Colen e M. Glória Gomes	IN-SITU TECHNIQUES FOR MECHANICAL PERFORMANCE AND DEGRADATION ANALYSIS OF RENDERING WALLS			
13	Želinková, M.	INORGANIC PROTECTIVE COATINGS FOR DURABILITY OF CONCRETE			
15	P. Pereira, A. Costa	CONCRETE STRUCTURES DURABILITY DESIGN – PROBABILISTIC APPROACH			
18	F. Cunha, S. Rana, G. Vasconcelos, R. Fangureiro and S. Abreu	RETROFITTING MASONRY INFILL WALLS WITH NOVEL FIBROUS STRUCTURES			
20	Beiral, W.V.; Garcia, S. L. G.; Dias, D.P.	BEHAVIOR ANALYSIS OF A SHEAR IN BEAMS WITH ARMED BAR HYBRID (STEEL AND GRP) AND REINFORCED WITH FRP BARS			
26	Eduardo Teixeira	BEHAVIOUR OF ANCHOR SYSTEMS IN CRACKED CONCRETE UNDER TENSION LOADING			
27	J.A.F.O. Correia, A.M.P. Jesus and A. Fernández-Cantelli	PROBABILISTIC FATIGUE BEHAVIOUR OF A STRUTURAL DETAIL OF PUDDLE IRON FROM THE VIANA BRIDGE			
30	João Santos, André D. Orcesi, Paulo Silveira and Weichao Guo	REAL TIME ASSESSMENT OF REHABILITATION WORKS UNDER OPERATIONAL LOADS			
44	A. Gameiro, A. Santos Silva, R. Veiga, A. Velosa, P. Faria	LIME-METAKAOLIN MORTARS FOR HISTORICAL BUILDINGS REPAIR: STUDY OF THE HARDENING REACTION			
59	Ana Mafalda Matos, Telma Ramos and Joana Sousa-Coutinho	SULPHATE ATTACK ON ECO MORTAR			
62	Liliana Baltazar, Maria Paula Rodrigues and João Ramôa Correia	CONCRETE HYDROPHOBIC PROTECTION: SHORT-TERM PERFORMANCE AND DURABILITY			
63	João P. Sousa, Susana Cabral-Fonseca and João R. Correia	ENVIRONMENTAL DEGRADATION OF GFRP PULTRUDED PROFILES MADE OF POLYESTER AND VINYLESTER RESINS			
67	Laurent Léoskoel, Laurent Van Parys and Sophie Rouge	COMPATIBLE MORTAR FOR MASONRY RESTORATIONS: DISCRETE OPTIMIZATION FOR EQUIVALENT STRENGTH & COLOUR PRESCRIPTION			
69	Jérémy Colas, Thierry Chaussadent, Loïc Divet, Stéphane Lavaud, Jacques Burdin, Nathalie Monin	INNOVATIVE SOLUTIONS FOR THE USE IN CONCRETE OF EXCAVATED MATERIALS FROM LYON-TURIN RAILWAY LINK TUNNEL			
73	Tânia Rosado, Patrícia Carvalho, Dora Teixeira, A. Candelasa and A.T. Caldeira	BEVOTEC12 – A NOVEL BIOCIDES FOR MURAL PAINTINGS AND CULTURAL HERITAGE CONSERVATION			
75	Raelize du Plooy and Azadeh Attari	CONCRETE CONDITION ASSESSMENT OF THE MIZEN HEAD BRIDGE, IRELAND: A COMPARITIVE STUDY OF VARIOUS DESTRUCTIVE AND NON-DESTRUCTIVE EVALUATION METHODS			
76	Rui Vaz Rodrigues, Mario Falrath	THE NEW SWISS GRADUATE SCHOOL OF PUBLIC ADMINISTRATION – CASE STUDY			
79	Hugo Marques, Diogo Bezerra, Raquel Campos E Matos	OPORTO'S SPORTS PAVILION – REFURBISHMENT AND REHABILITATION PROJECT			
80	J. Mai-Nhu, A. Sellier, P. Rougeau, F. Duprat and M. Salta	NUMERICAL TOOL FOR DURABILITY ASSESSMENT OF CONCRETE STRUCTURES SUBJECTED TO AGGRESSIVE ENVIRONMENT			
85	R. B. Figueira, E. V. Pereira, C. J. R. Silva, M. M. Salta	ORGANIC-INORGANIC HYBRID COATINGS FOR CORROSION PROTECTION OF STEEL			
95	S. Srinivasan, PAM Basheer, S Nanukuttan and WJ McCarter	USE OF A MULTI-ELECTRODE SENSOR TO MONITOR EARLY AGE PROPERTIES OF CONCRETE			
97	C. Green, S. Nanukuttan and M. Basheer	ROLE OF PERFORMANCE INDICATORS IN ASSESSING THE STATE-OF-HEALTH OF CONCRETE INFRASTRUCTURE			

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<b>Young authors award evaluation</b>					
<b>GENERAL EVALUATION</b>					
Innovation	Scientific content	Practical application	Quality of presentation		
20%	40%	25%	15%		
Evaluation done by: SC reviewers and Awards Committee					
<b>26 candidates</b>					



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### Young authors award


Rank	Classification
1 <sup>st</sup> place	1,69
2 <sup>nd</sup> place (exquo)	1,77
2 <sup>nd</sup> place (exquo)	1,78

1 – Excellent  
2 – Very good  
3 – Good  
4 – Average



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### Young authors award

1st Place  
**João Santos (LNEC)**  
"Real time assessment of rehabilitation works under operational loads"



2nd Place (exquo)  
**Jónatas Valença (U. Coimbra)**  
"Automatic concrete health monitoring"

2nd Place (exquo)  
**Sudarshan Srinivasan (QUB)**  
"Use of a multi-electrode sensor to monitor early age properties of concrete"

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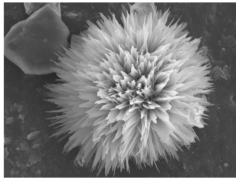
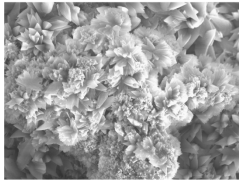

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# PHOTO COMPETITION

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### Photo competition results

<b>1<sup>st</sup> place</b>	<b>2<sup>nd</sup> place</b>	<b>3<sup>rd</sup> place</b>
		
"ASR crystalline products"	"Calcium aluminat silicate hydrate crystals"	"Galvanic corrosion"

1<sup>st</sup> place: **Dora Soares** – DM/LNEC  
2<sup>nd</sup> place: **André Gameiro** - DM/LNEC  
3<sup>rd</sup> place: **António Baptista** - DE/LNEC



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All ICDS12 presentations will be available at

<http://durablestructures2012.lnec.pt>


and

[www.duratinet.org](http://www.duratinet.org)



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DURATINET Network



**duratiNet**

[www.duratinet.org](http://www.duratinet.org)

The network will continue after project closing

**We are open to all interested participants**