

Registration and Accommodation

The registration form available on the website (in July 2012) should be completed and sent not later than 15 October 2012 to the conference office. The registration will be confirmed by the organizing committee.

- A financial participation will be asked at the beginning of the event to cover meals, coffee breaks and all practical arrangements.
- Each participant will cover its own travel and accommodation expenses.
- Room reservations must be made through the conference office (NUCPERF2012@cea.fr).

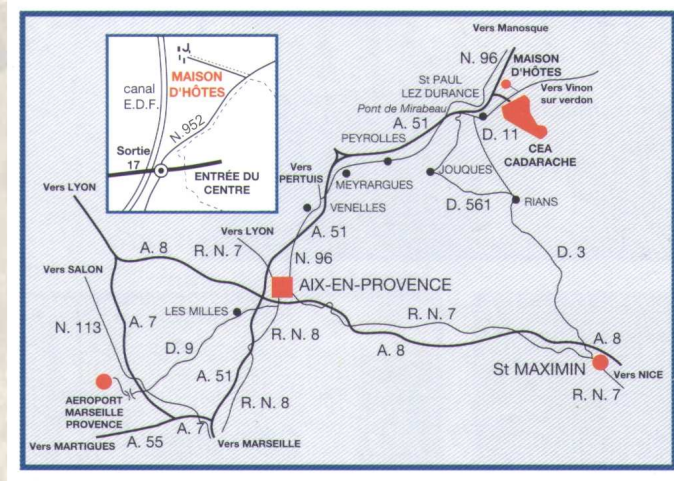
Venue

The workshop will be held at the "Château de Cadarache". This old castle from the 13th century is located in the south of France at 40 km from Aix-en-Provence and 70 km from Marseille. It is the "Maison d'hôtes" of the CEA Cadarache Centre.

Access information is available on the conference website www.NUCPERF2012.fr, to be available in November 2011.



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NUCPERF 2012
RILEM Event TC 226-CNM
EFC Event n°351

**Long-Term Performance of
 Cementitious Barriers and Reinforced
 Concrete in Nuclear Power Plant and
 Radioactive Waste Storage and Disposal**

12 – 15 November 2012

Cadarache - France

● About the Workshop

Background

After the success of the NUCPERF2006 workshop on Corrosion and Long-Term Performance of Reinforced Concrete in Nuclear Power Plants and Waste Facilities and the NUCPERF2009 workshop on Long-Term Performance of Cementitious Barriers and Reinforced Concrete in Nuclear Power Plants and Waste Management (Cadarache, France, 27-30 March 2006 and 30 March–2 April 2009), the organizers and the sponsor organizations propose to focus the NUCPERF2012 meeting on Long-Term Performance of Cementitious Barriers and Reinforced Concrete in Nuclear Power Plants and Radioactive Waste Storage and Disposal.

Objectives:

- To present the expectations of regulators, licensees, designers and researchers with regards to reinforced concrete structures,
- To discuss R&D progress with regard to long-term performance of reinforced concrete structures,
- To reach a consensus on R&D needs to further develop cooperative programmes.

This event takes part of the activities of the **RILEM** Technical Committee "Concrete in the context of the nuclear management" (**TC-CNM**). The event is also sponsored by the European Federation of Corrosion (**EFC**): Nuclear Corrosion (**WP4**) and Corrosion in Concrete (**WP11**) Working Parties. The Committee for Safety of Nuclear Installations (**CSNI**) of the **OECD/NEA** is also involved in the event.

● Proceedings

- A booklet of the abstracts will be provided to the participants.
- Proceedings will be published after the workshop.

● Topics

The workshop will provide a forum to exchange state-of-the-art knowledge on the following items:

- **Performance and safety assessment**
Physical and chemical behaviour of cementitious system
Data treatment and model parameters
Uncertainty management
Use of analogues
- **Aging Management of Nuclear Power Plant**
Monitoring and assessment
Sensors and NDE methods
Impact of aging and chemical degradation on safety margins
Modelling remaining service life of NNP structures
- **Test approaches**
Parameters measurements Accelerated tests
Upscaling and field application of laboratory tests
- **Physical, chemical and mechanical behaviour**
Impact of cracking Carbonation
Experimental characterization
Coupled modelling approaches
Thermal and radiolytic effects
Transport in unsaturated systems
- **Metallic corrosion**
Anaerobic corrosion Modelling
Stability of passive layers Environmental effects
Thermal and radiolytic effects
Consequences of corrosion on concrete performance
Corrosion in blended cements and new binders

A half-day session will be organised on how to incorporate this knowledge to improve the performance and design of new facilities.

● Organising Committee

Valérie L'Hostis (Chairperson)	CEA and RILEM TC CNM
Laure Chomat	CEA
Alexandra Henry	CEA

● Programme Committee

Robert Gens (Coordinator)	ONDRAF, Belgium
C. Andrade (IETcc, Spain)	K. Philipose (AECL, Canada)
K. Brown (Vanderbilt U, USA)	F. Sanchez (Vanderbilt U, USA)
M. Castellote (IETcc, Spain)	N. Smart (SERCO, UK)
L. Chomat (CEA, France)	S. Williams (NDA, UK)
D. Feron (CEA, France)	P. Zuloaga (IETcc, Spain)
C. Galle (CEA, France)	
E. Gallitree (EDF, France)	
F. Glasser (U Aberdeen, UK)	
D. Kosson (Vanderbilt U, USA)	
B. Kursten (SCK-CEN, Belg.)	
V. L'Hostis (CEA, France)	
J. Mok (CSNC, Canada)	
J. Philip (NRC, USA)	

● Key Dates

November 2011	Announcement and call for papers, website opening
30 April 2012	Deadline for abstracts
1 st July 2012	Notification of paper acceptance
	Workshop registration and accommodation
15 October 2012	Deadline for registration Deadline for full papers
12-15 November 2012	Workshop

● Conference Office

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● Website

Registration form, logistic and programme are available on the website:

www.NUCPERF2012.fr