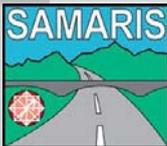


# SAMARIS final seminar

Lausanne,  
16-17 February 2006



## Information Bulletin No. 1

SAMARIS (Sustainable and Advanced Materials for Road InfraStructures) is a 3 year project under the European Union's 5th Framework Programme for Research and Technological Development.

Its research has targeted two distinct topical areas, both of great importance for road infrastructure owners and the industries that serve them. One is the complex of questions surrounding effective use of recycled materials and industrial waste products when building and paving roads. The other is the equally significant issue of planning and executing critical maintenance and rehabilitation of our concrete structures in sustainable ways, taking benefit of the most recent advances in the field of assessment and rehabilitation techniques to keep them healthy for a long time.

In both subject areas we have produced what we expect that potential end users will see as very valuable results, which should prove to be immediately useful to the professionals who procure or conduct maintenance or new construction on Europe's highways. These results will be presented in the final seminar, which aims to show the practical implications of the project and how to bring the innovations into use in the immediate future.

*Therefore, if new developments in cost-effective use of materials and techniques for the construction and maintenance of highway pavements and/or structures are your business, then read on and be sure that you don't miss this event!*

### Seminar schedule

The programme will begin and close with plenum sessions. The rest of the time is assigned to two parallel sessions, each devoted to one of the two subject areas.

#### Thursday, the 16th of February 2006 (Day one)

12:00-14:00 *Arrival, lunch available*  
14:00-14:50 Plenum opening session: Welcome Addresses and Project Overview  
15:00-18:00 Parallel sessions: see specifics below

*Evening Seminar dinner. Details and location to be decided.*

#### Friday, the 17th of February 2006 (Day two)

08:30-12:30 Parallel sessions continued  
12:30-13:00 Closing session: Overcoming the hurdles of innovation  
  
13:00-14:00 *Lunch available*  
14:00-15:30 *Optional guided visits to EPFL laboratories (see below)*



### Parallel session programmes

The seminar is targeting end users with power to take decisions and the counsellors of such people. Therefore, after a necessary review of the background on which the project has achieved results, most of the time will be spent on presenting and discussing their practical implications and their implementation.

### (I) Advances in the rehabilitation of highway structures in Europe

The structures stream of the project has dedicated a major effort to provide end users and specifiers with (1) an inventory of the condition of structures in Central European countries, (2) guidelines for optimal assessment of highway structures, (3) guidance on selecting appropriate rehabilitation strategies and (4) guidance for implementing two promising innovative rehabilitation techniques. The seminar will focus both on guidelines for optimal assessment of highway structures and practical implementation of new rehabilitation techniques validated during the project.



<b>Day one:</b>	15:00-15:05	Introduction (AZ)
	15:05-15:40	Integrated strategy for rehabilitation (MMcK)
	15:40-16:25	Coffee break and poster session
	16:25-16:35	The end users' perspective (End user)
	16:35-18:00	Optimised assessment (AZ)
		Ultra High Performance Fibre Reinforced Concrete (ED) Corrosion inhibitors (MR) Discussions



<b>Day two</b>	08:30-09:00	Arrival and poster session
	09:00-09:30	Case Studies A: Rehabilitation strategy with emphasis on structural assessment (AZ)
	09:30-10:30	Case studies B: Application of innovative solutions incorporating Ultra High Performance Materials (ED, JCP)
	10:30-11:15	Coffee break and poster session
	11:15-12:00	Case studies C: Application of innovative solutions incorporating corrosion inhibitors (MR)
	12:00-12:30	Discussion and Summary

### (II) Premium pavements from alternative materials for European roads

Construction and maintenance will increasingly rely on the use of recycled materials. These may be road materials, deconstruction materials or industrial by-products. Doing so will bring important advantages, including saving natural resources and reducing waste disposal. However, to be effective, recycling techniques that introduce a variety of unfamiliar materials, must be safeguarded in order to ascertain durability, environmental harmlessness and safe worksite conditions.



<b>Day one:</b>	15:00-15:40	Part 1: Introduction to recycling Keynotes (JMP) What is the situation? (FS) The need for environmental assessment to promote sustainability (KK) Discussion
	15:40-16:25	Coffee break and poster session
	16:25-18:00	Part 2: Assessment of recycled materials General methodology to select best usage of alternative materials (DF + KP) Environmental assessment
		<ul style="list-style-type: none"> <li>• Prototype environmental annex to product standard (SB)</li> <li>• Health and safety assessment (BK)</li> <li>• Including reaction to fire (SC)</li> </ul>



<b>Day two:</b>	08:30-09:00	Arrival and poster session
	09:00-10:15	Part 2: Assessment of recycled materials (continued) Mechanical assessment; towards functional specification irrespective of type of material. (Modelling)
		<ul style="list-style-type: none"> <li>• Unbound materials (PH)</li> <li>• Asphalt materials (RB)</li> </ul>
		Implication for standardisation (CN) Discussion
	10:15-11:00	Coffee break and poster session
	11:00-12:00	Part 1: Digest on recycling techniques General presentation of the Technical Guide (FS) Specific aspects (EUROVIA) Discussion
	12:00-12:30	Conclusions and perspectives Perspective for assessments (DF) To be decided

## Speakers

All presentations will be given by members of the international SAMARIS research team. The initials used in the programmes above translate to the following individual names:

AZ:	Ales Znidaric, ZAG, Slovenia	KK:	Prof. Klaus Krass, RUB, Germany
BK:	Burgard Koenders, Shell Global Solutions, France	SB:	Sabine Boetcher, RUB, Germany
CN :	Cliff Nicholls, TRL, UK	KP:	Knud Pihl, DRI, Denmark
DF:	Denis Francois, LCPC, France	MR :	Mark Richardson, UCD, Ireland
ED :	Emmanuel Denarié, EPFL, Switzerland	MMcK:	Malcolm McKenzie, TRL, UK
EN:	Erik Nielsen, DRI, Denmark	PH:	Pierre Hornych, LCPC, France
FS :	Francisco Sinis, CEDEX, Spain	RB:	Ronald Blab, TU Vienna, Austria
JMP:	Jean-Michel Piau, LCPC, France	SC:	Sarah Colwell, FRS, United Kingdom
JCP :	Jean-Christophe Putallaz, SRCE-VS, Switzerland		

## Documentation

Participants will at the seminar receive prints of all presentations. These will be based on power point dias with ample written text notes. All finalised reports will be on display along with guidance and demonstration on how to download these reports form the project's web site. Also, all participants will receive the project's summary reports for the pavement and structure related research respectively including a CD ROM with the full text of the most significant and instructive reports.

## Venue

The seminar is held in the École Polytechnique Fédérale de Lausanne (Swiss Institute of Technology in Lausanne), Switzerland. This highschool is located some 5 kilometres west of the city of Lausanne with very efficient and frequent public rail transport to the city. Lausanne is located on the shore of lake Lemman, 50 minutes by train from Geneva International Airport and 2½ hours by train form Zurich International Airport.

## Seminar language

All presentations and discussions will be made in English.

## Laboratory visits

After lunch on the second day there will be an opportunity to visit two of EPFL's renowned laboratories: professors Andre-Gilles Dumont and Eugen Brühwiler have very kindly opened the doors to their respective laboratories: the LAVOC road research laboratory and the MCS laboratory for the maintenance, construction and safety of structures.

## Hotel accommodation

Advance block reservation has been made for about 250 rooms at the hotels in Lausanne, which are listed in attachment 1. Some of these reservations are valid until the end of January, but a majority can only be used up to the end of 2005 and some have even shorter availability. *In short: rooms can soon become a scarce commodity and participants are urged to secure early booking.*

## Registration fee

To cover the costs of the seminar there is a registration fee, which is 300 euros for registrations after the 15th of January 2006 and 225 euros for registrations before this date. *A dinner will be organised in Lausanne in the evening of February 16. Participation in the seminar dinner is optional and will cost an additional 80 euros. In the case of cancellations before the 1st of February 2006, the registration fee will be returned with a deduction of 50 euros. In the case of later cancellations the fee will be retained for its intended purpose.*

## Registration procedure

The registration form is to be found on page 4 in this information bulletin. Please fill it out at the earliest opportunity and mail it to samaris@vd.dk. You will then receive a signed-up confirmation and later an invoice on the registration fee. If you have any questions please ask them to:

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phone +45 3341 3038  
e-mail sm@vd.dk



# SAMARIS FINAL SEMINAR

École Polytechnique Fédérale de Lausanne

Lausanne, Switzerland, 16 – 17 February 2006

## REGISTRATION FORM

To be returned to:

SAMARIS secretariat:  
Sys Mikkelsen

### Danish Road Directorate

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**Telefax +45 3332 9830**

**e-mail: samaris@vd.dk**

**Registration fee: EUR 300**

**Registration before 15 January 2006: EUR 225**

Name:	
Function:	
Firm/Company/ Institution	
Invoice Address:	
Phone:	
Fax:	
e-mail:	
Seminar dinner (80 EUR)	Yes: _____ No: _____
Lunch 16 Febr. incl. in fees	Yes: _____ No: _____

Signature: ..... Date: .....