

**Invitation & Preliminary Program
& Information to participants**

31st ESReDA Seminar

Ageing



**Location:
Smolenice Castle, Slovakia
November 7- 8, 2006**

**Technical visits
November 9 – 10**

For information and registration:

www.vuje.sk/seminar

Most of the abstracts can be found on this web-site

Scope

The world is getting increasingly complex and we are becoming more and more depending on man-made systems and environments. Failures and lack of function may have increasing consequences to an increasing number of people. In many areas pressure on cost or use of resources is growing.

This is a challenge to every organisation – how can available resources be used in an effective way. In this situation ageing is an ever-present issue. People are ageing, some knowledge is ageing, components and systems are ageing and organisations are ageing. This topic has technical, human, organisational, mathematical aspects and all needs to be considered in order to achieve good results.

Related to this there are many aspects, which concern a reliability organisation such as ESReDA, and many aspects on reliability data. What are the problems we are facing? How can they be solved? What should be avoided? etc.

Program Committee:

Lars Pettersson (Vattenfall, SE) Chairman
Ivan Cillik (Vuje, SK)
Luigi Debarberis (JRC, NL)
Mohamed Eid (CEA, FR)
Rainer Kaulbarsch (AREVA NP GmbH, DE)
Henrik Kortner (DNV, N)
Ludovit Kupca (Vuje,Sk)
André Lannoy (IMdR, FR)
Kaisa Simola (VTT, FI)
Antonio Sola (Iberdrola, ES)
Dusan Vincour (UAM, CZ)

Local organizing Committee

Karol Rovny (Vuje, SK) (responsible)
vts@vuje.sk

Program overview

November 6	7	8	9	10
	Seminar	Tutorial	ESReDA Project Groups	Technical visits
		Seminar	Technical visits	
Reception			ESReDA Board of Directors	

Preliminary Seminar Program

The seminar will run in one session for two full days. The program may be subject to change.

Monday, November 6, 2006:

16.00 – 18.30 Registration
19.00 – 24.00 Welcoming reception

Tuesday, November 7, 2006:

07.30 – 09.30 Registration
09.30 Opening of the Seminar

09.45 – 11.45 Session 1. General considerations on ageing of Units and Systems.

W.R. Beukenkamp, R Methorst	Ageing in transport systems: a human and technical perspective
A. Rodionov, C. Kirchsteiger	Ageing PSA as a tool for evaluation of impact of aging and maintenance of SSC to the overall plant safety
Jean-Remy Masse	Ageing topics in aeronautics
L. Debarberis, M. Brumovsky, V. Slugen, M. Miklos, A. Zeman	Contribution to preservation and management of nuclear knowledge on WWER reactor pressure vessels

12.00 – 13.00 Lunch

13.00 – 15.00 Session 2. Identification and detection of ageing.

A Saleem, D Forbes, C Lum	Ageing – can we delay the process
E. Perukhina	Method to determine functioning deviations for complex technical objects
M. Rogante, V.T. Lebedev	Nanostructure characterisation by SANS for investigation on ageing
Brahim Sellali, El Hadi Rebaa	Neuro-Fuzzy techniques for Diagnosing in Power Transformer

15.00 – 15.30 Coffee break

15.30 – 17.00 Session 3. Evaluation of ageing of Systems and Structures.

B. Guyot, E. Cayre, C. Bérenguer	Minimising uncertainties in ageing prediction of in-development complex systems
A. Kudzys, O. Lukoseviciene	Probabilistic durability prediction of ageing structural members
T. Yalamas, G. Defaux, J-F. Destrebecq, A. Laudren, B. Clatot	Estimation of the durability of dispersion structures in cooling towers
J.-Y. Cognard, M. Cazuguel, M. Mejri	Time-variant reliability approach for ageing marine structures

19.00 Seminar common dinner

Wednesday, November 8, 2006:**08.00 – 10.00 Tutorial**

10.00 – 10.30 Coffee break

10.30 – 12.30 Session 4. Evaluation of ageing of Components

R. Bris, M. Cepin	Stochastic ageing models under two kinds of failures
A. Gabrielsson	Lifetime prediction by application of Bayesian methods
M. Kerdy, M. Eid, R. Kouta, E. Chatelet	Probabilistic analysis of behaviour and ageing of PEM fuel cell with integration of degradation models and random temperature
R. Ziani, C. Pisslor	Influential factors on ageing of signal equipment

12.30 – 13.30 Lunch

13.30 – 15.30 Session 5. Ageing PSA.

J. Blombach, K.-U. Brahmstaedt, L. Camarinopoulos	Does ageing of NPPs require the incorporation of time dependent failure rates in PSA models? Verification using operating experience of emergency diesel generators collected in ZEDB
M Cepin, R Bris	Models of Aging Equipment in the Probabilistic Safety Assessment
JM. Mattei, A Rodionov	Considerations on the problem of aging of nuclear facilities

15.30 – 16.00 Coffee break

16.00 – 18.00 Session 6. Ageing management and efficiency of maintenance

M Brezina, L Kupca, J Petzova	Corrosion monitoring programmes of NPP safety related components
E Deloux, B Castanier, T Yeung, C Bérenguer	A Predictive Maintenance Policy Based on Two Explicative Variables
L Kupca, M Brezina, J Petzova	Ageing management of safety related components of WWER-440 units operated in the Slovak republic
D.Synak, K. Rovny, M Lukac	Ageing management of cables in Nuclear Power Plants

18.00 – 18.10 Closing of Seminar

Dinner

Thursday, November 9, 2006:

Technical visit to Bohunice NPP, Unit V-1

Friday, November 10, 2006:

Technical visit to VUJE full scope simulator and training centre.

Participants interested in technical visits are kindly asked to register before October 30 and send their personal data (if these had not been sent yet together with the seminar registration) to the organisational committee (belicova@vuje.sk). Personal data are required to gain access to Bohunice NPP.

Final programme of seminar will be published at the: www.vuje.sk/seminar

Location

The seminar will take place in Smolenice castle, located in the “Small Carpathians Mountains”, 50 km northeast of Bratislava. Most of the participants will have the possibility to be accommodated in the castle.

Transportation

Travelling from abroad, it is possible to fly to Bratislava or to Vienna and then to continue by bus, train or rented car to Bratislava, Trnava (50 km from Bratislava, 20 km from Smolenice) or directly to Smolenice.

There is a public bus service from Vienna airport to Bratislava airport. Schedules can be found at: <http://www1.skyeurope.com/en/Default.aspx?CatID=99&d=VIE&ai=1>

VTS VUJE will arrange a bus transport from Bratislava to Smolenice castle:

ESReDA seminar - bus transport schedule		
Monday 06.11.2006	Bratislava- main buss station “Mlynske Nivy”	16.00
	Bratislava airport	16.30
	Trnava VUJE a.s.	17.30
	Smolenice castle	18.00

Participants are strongly recommended to use this service, since it can be pretty complicated to get to Smolenice castle by public connection services (several changes are required).

A bus transport from Smolenice castle to Bratislava will be arranged after the seminar.

Registration

For registration, please, visit the seminar web-page: www.vuje.sk/seminar
On this site you will find all information and registration forms needed.

Accommodation & food

Accommodation: Participants will be accommodated in the Smolenice castle.

Prices:

Room /night (including breakfast) 74 EUR
(5 EUR- breakfast for every other person in room)

Apartment /night (including breakfast) 85 EUR
(5 EUR- breakfast for every other person in room)

Dinners: 20 EUR/dinner

Common dinner on November 7th 30 EUR/person

Lunches are included in the registration fee.

Payment for the accommodation and food will be done during the registration.

Notice: Accommodation in the Smolenice Castle out of the seminar dates is absolutely impossible. If you need assistance in finding accommodation out of the seminar dates, please, contact the organizational committee well in advance.

Reception

There will be a welcoming reception at the castle on November 6th at 7.30 p.m.

Common Dinner

A common dinner will be held on November 7th at 7.00 p.m. at the castle.

Technical visits

Thursday, November 9

NPP Bohunice - Unit V1

Friday, November 10

VUJE full scope simulator and training centre

Seminar fees

The seminar is free for speakers (1/paper) and ESReDA members (3/member). The fee is 300 EUR for other participants. Payments should be done to “ESReDA” through a bank transfer:

“Fortis Bank-Deinze, Tolpoortstraat 17, Deinze, B-9800, Belgium; BE69

Bank account ESReDA number: N°001-2372816-78/BIC: GEBABEBB36A/ IBAN : BE69 0012 3728 1678”.

The seminar fee does not include accommodation or dinners!

ESReDA

European Safety, Reliability & Data Association (ESReDA) is a European Association established in 1992 to promote research, application and training in Reliability, Availability, Maintainability and Safety (RAMS). The Association provides a forum for the exchange of information, data and current research in Safety and Reliability and a focus for specialist expertise.

Homepage: <http://www.esreda.org>

Membership of ESReDA is open to organisations, private or governmental institutes, industry researchers and consultants, who are active in the field of Safety and Reliability. Membership fees are currently 1000 EUR for organisations and 500 EUR for universities and individual members. Special sponsoring or associate membership is also available.

All queries about new membership applications should be made to ESReDA secretariat:

ESReDA General Secretary: Mohamed EID

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