



**FIRST ANNOUNCEMENT, GENERAL INFORMATION
AND
CALL FOR PAPERS**

**OECD-NEA, CSNI Working Group on the
Integrity and Ageing of Components and
Structures (WGIAGE)**

**WORKSHOP ON NON-DESTRUCTIVE
EVALUATION OF THICK WALLED
CONCRETE STRUCTURES**

organized by

ÚJV Řež, a. s., Czech Republic

PRAGUE, Czech Republic

12.-14. June 2013

AMBASSADOR-ZLATA HUSA HOTEL

Wenceslas Square 5-7, Prague 2

Concrete structures are essentially passive components under normal operating conditions, but play a key role in mitigating the impact of extreme or abnormal operating events and external hazards. Structural components are somewhat plant specific, may be difficult to inspect and a limiting factor for plant life since they are mostly irreplaceable. Structures are subject to time-dependent variation of material properties under the influence of environmental stressors and ageing factors that may impact their ability to perform its safety function. As NPPs age, assurance needs to be provided that the capacity of concrete structures to mitigate extreme events has not deteriorated unacceptably.

The objective of this workshop is to present and discuss the state of the art techniques for the integrity assessment of concrete structures, and to recommend areas where further research is needed.

ORGANIZATION AND SCHEDULE

Important dates

March 28, 2013: Deadline for receiving 500-word summary, which will be used by the programme committee and pre-registration form (see Abstract Form)

April 28, 2013: Notification of acceptance of abstract for presentation of papers at the workshop

May 24, 2013: Deadline for receiving full paper in the prescribed format

June 12-14, 2013: Workshop

TECHNICAL COMMITTEE CHAIRMAN

Ladislav Pečínka, ÚJV Řež, a. s., Czech Republic

COMMITTEE MEMBERS

Dan Naus (ORNL, USA)

Herbert Wiggensauser (BAM, Germany)

Jean Mathieu Rambach (IRSN, France)

Jean Salin (EdF, France)

Neb Orbovic (CNSC-CCSN, Canada)

Madhumita Sircar (US NRC)

Pentti Varpasuo (FORTUM, Finland)

Silvio Sperbeck (GRS, Germany)

Alejandro Huerta (OECD-NEA)

TECHNICAL COMMITTEE SECRETARIES

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<http://www.teris.cz>

LANGUAGE

The working language of the workshop will be ENGLISH

PROCEEDINGS

A copy of the Book of Abstract will be distributed at the conference. The Proceedings containing full-length paper will be published in Proceedings form following the workshop and sent to participants

AIM AND SCOPE OF WORKSHOP

The objective of this workshop is to review existing methods for non-destructive evaluation of NPPs thick walled concrete structures and to present state of the art techniques for the integrity of concrete structures, aiming to detect voids and cracks in concrete and to detect in passive (rebars) and active (tendons) reinforcing items.

The first workshop has been held in 1997 in UK at Risley. The development priorities of NDE of concrete structures in NPPs were identified. The second workshop has been held in 2008 in Prague on Ageing Management of Thick Walled Concrete Structure, including ISI, Maintenance and Repair and Safety Assessment in view on Long Term Operation. It was discussed that non-destructive examination of NPP containment structures presents challenges different from conventional civil engineering structures due to several aspects, such as:

- 1) wall thickness that could exceed one meter; structures often have increased steel reinforcement density with more complex detailing
- 2) the number of penetrations or cast in place items; and accesibility may be limited due to presence of liners or other components
- 3) harsh environment or structures located below ground.

The principal domains are

- application of
 - high frequency radar
 - ultrasound
 - impact echo
 - radiography
 - guided waves
- utility experience
- inspection of pre-stressing wire discontinuities
- spent fuel pools and repositories
- influence of the radiation and elevated temperature on the concrete
- new information processing methods and artificial intelligence techniques
- detection of leakages

WORKSHOP VENUE

AMBASSADOR-ZLATA HUSA HOTEL

Wenceslas Square 5-7, Prague 1

Czech Republic

Phone +420 224212185

Fax +420 224226167

reservation@ambassador.cz

www.ambassador.cz

Accommodation:

SGL room 116 Eur/1 night, incl. breakfast

DBL room 124 Eur/1 night, incl. breakfast

*Payment of accommodation will be made in Euro at the reception desk of
AMBASSADOR-ZLATA HUSA HOTEL by credit card or cash*

PARTICIPATION FEE

The registration fee for the Workshop is 250 Euros per participant and will cover the cost of rentals for conference hall, equipment, water/coffee, lunches and others. The fee is to be paid before May 31, 2013.

PAYMENT

The payment should be made by:

Bank transfer to TERIS bank account No.: 207526376/0600

IBAN: CZ 4306000000000207526375

SWIFT (BIC): AGBACZPP

Bank address: GE Money Bank CZ a.s., Vinohradská Street 2133/138, Prague 3;
Czech Republic



Credit card: VISA, EUROCARD/MASTERCARD, AMERICAN EXPRESS

Cash at registration desk

VISA REQUIREMENTS

Please visit the website of the Ministry of Foreign Affairs to verify your visa requirements, www.mzv.cz

Should you require more information invitation or letters of invitation, please contact Technical Committee Secretary, contact person Mrs. Jana Dachova, e-mail: dachova@teris.cz

**OECD NUCLEAR ENERGY AGENCY
CSNI Workshop on**

**“NON-DESTRUCTIVE EVALUATION OF THICK WALLED CONCRETE
STRUCTURES”**

Hosted by the ÚJV Řež, a. s.
PRAGUE, Czech Republic
12-14 June 2013

Registration / Abstract Form

In response to the announcement and call for papers we inform you of the nomination of

Surname (Family Name)¹:

Given Name (s):

Title or Function:

Institution, Organization or
Company (full address, zip
code, country):

Telephone No. :

Telefax No

E-mail address:

Title of the paper (abstract to
be added, if any)

To be sent as soon as possible, according to the specified deadlines, to:

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¹ (Please indicate whether Prof., Dr., Mr., Mrs., Miss, Ms.)