

Dear BNS & BNS-YG members,  
Dear BNS & BNS-YG friends,

The Belgian Nuclear Society has the honor to invite you to the next **BNS conference**, which will take place on Thursday 27/10/2011 at 14:00, at the DOEL NPP.

The subject of the conference is:

**“Long Term Operation of Nuclear Power Plants: Life beyond 40 Years”**

The preliminary program and the registration details are given hereafter.

For practical reasons, the number of participants will be limited to 65 people. The conference will be concluded by a cocktail.

In addition, a technical visit to the “Scaldis” training center will be organized in the morning for which the number of participants is strictly limited to 20 people.

We sincerely hope to welcome you on this occasion.

Best regards.

**Grégory Delécaut**  
BNS Secretary

**Didier Haas**  
BNS Chairman

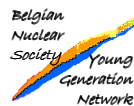
Upcoming activities:

24/11/2011	18:30	Tractebel FORUM
26/01/2012	18:30	SCK•CEN

*NB: Feel free to forward this invitation to your colleagues!  
The participants are kindly invited to subscribe as BNS member.*



siège social - sociale hoofdzetel c/o SCK-CEN  
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*BNS-Young Generation Network*

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# “LONG TERM OPERATION OF NUCLEAR POWER PLANTS: LIFE BEYOND 40 YEARS”

- Thursday 27/10/2011
  - 14:00-18:00
  - Doel NPP
  - Haven 1800-1806, Scheldemolenstraat-9130 Doel
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*BNS Conference*



[www.bnsorg.be](http://www.bnsorg.be)  
[www.bnsorg.be/yg](http://www.bnsorg.be/yg)

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## “Long Term Operation of Nuclear Power Plants: Life beyond 40 years”

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The Belgian Nuclear Society, in association with Electrabel, is organizing a conference on Long Term Operation (LTO) of nuclear power plants.

The first wave of commercial nuclear power plants in operation worldwide was commissioned between 1965 and 1980. In the USA, NPP were granted a 40 years license. A License Renewal process for a period of 20 years was initiated in the late 90ties, with the goal to demonstrate that important Systems, Structures and Components (SSC's) will continue to perform their intended functions in the period of extended operation. This process was essentially addressing ageing management and degradation mechanisms. It has demonstrated to be very successful: indeed, most of the commercial NPPs were already granted a License Renewal, or will apply for it, LTO being very often considered the least cost option for generation of base load electricity. In many other countries like Belgium, a Periodic Safety Assessment process is applied, in accordance with IAEA Guidelines, with due consideration for ageing, but also for Design Upgrade, which paves the way to Long Term Operation.

The main aim of the conference is to present an update on the international situation and on the one in Belgium, where the LTO file is being prepared for Doel 1-2 and Tihange 1, and to address some specific technical topics related to ageing and degradation.

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## Tentative agenda

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### Technical visit

- 08:30 Venue and coffee
- 09:00 Visit of the workplace simulator
- Introduction to training approach and methodology
- Visit of the full scope training simulator
- 12:00 Transfer to the Doel Infocenter
- 12:30 Lunch at the Doel Infocenter

### Conference

- 13:30 Venue and registration
- 14:00 Welcome address by Doel NPP representative
- 14:10 Introduction of the conference and international update, by Mr Jean Van Vyve, Conference Chairman
- 14:30 *The Belgian Regulatory Framework*, by Mr Frederik Van Wonterghem (FANC)
- 15:00 *The LTO Approach of Electrabel*, by Mr Geert Backaert (Electrabel)
- 15:30 *Embrittlement of Reactor Vessel Material*, by Mr Rachid Chaouadi (SCK-CEN)
- 16:00 *Coffee break*
- 16:30 *Time Limited Ageing Analysis*, by Mr Michel De Smet (Tractebel Engineering)

17:00 *A case from Abroad- LTO of the Brosselle NPP*, by Mr André de Jong (EPZ)

17:40 Concluding remarks

18:00 *Cocktail*

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## Practical Information

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Please confirm your attendance (technical visit and/or conference) before **October 20<sup>th</sup>**, at **the latest** to [secretary@bnsorg.be](mailto:secretary@bnsorg.be) by indicating your names and your company.

**WHEN :** Thursday 27/10/2011  
at 09:00: technical visit  
at 14:00: conference

**LANGUAGE :** English

**RESERVATION :** to [secretary@bnsorg.be](mailto:secretary@bnsorg.be) before 20.11.2011

**PRICE :** Free Entrance

**WHERE :** **Technical visit**  
Scheldedijk 1  
1067 Kallo (Haven)  
België

**Conference**  
Doel NPP Infocenter  
Haven 1800-1806  
Scheldemolenstraat  
9130 Doel