**INVITATION Conference/Seminar**

**CONTRIBUTION OF NUCLEAR TO THE ENERGY TRANSITION**

**March 2023, 30 & 31**

**Conference/Seminar March, 30 – 9h30 to 16h30**

Blue Point - Bd Reyers, 80 - 1030 Brussels, Room Archimède

**Visit March, 31 – 10h00 to 16h00: SCK-CEN at Mol**

Lakehouse - Boeretang, 201 - 2400 Mol

As part of its activities, the KVBE-SRBE organizes several workshops to discuss technologies for the energy transition using electrical energy. The last event on 24 November 2022 highlighted the need for electricity to decarbonize industry including hydrogen production for industrial applications. In addition, the demand for electricity will increase as part of the electrification of transport as shown by our past event about e-mobility on 26/02/2019.

The KVBE-SRBE has decided to organize, in collaboration with SCK CEN and KVAB/ Reflectiegroep Energie, 2 days of reflection about the use of nuclear power in the coming decades to meet the demand for carbon-free energy in addition to Renewable Energies. This comprehensive seminar highlights all important aspects of the future of nuclear technologies and gets you up to speed on latest developments including Small Modular Reactor (illustrated in the centre, courtesy of Tractebel)

 

The organization is planning a brainstorming seminar in Brussels and a visit to the Belgian nuclear research center in Mol developing the MYRRHA and MINERVA projects.

 

With this event, the KVBE-SRBE intends to bring together all stakeholders on this topic covering the coming decades for a CO2-neutral society. This will concern all interested people as teachers, professors, students, specialists, engineers, business, industry and public stakeholders,… It will be complemented in 2023 by another KVBE-SRBE event relating to wind power, particularly offshore installation.

**Program March,30 – 9h30/16h30**

* **Conferences at Blue Point – Diamant building - Brussels**
* **Chairman Patrick Hendrick, Prof. ULB – Head of Aero-Thermo-Mechanics Dpt**

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| 09:00 | ***Welcome coffee*** |
| 09:30 | ***Introduction*** |
|  | The contribution of nuclear to the energy transition, the context: **Nathal Severijns – Prof. KULeuven** |
|  | Studie die Energyville heeft uitgevoerd over de energievooruitzichten naar 2050 toe: **Pieter Lodewijks - VITO** |
|  | Nuclear and European Energy Policy – trends and challenges: **Jan Panek – EC/DG Energy** |
|  | TBC: **Jan Vande Putte - GreenPeace**  |
|  | FGOV State of art horizon 2040: **Alberto Fernandez – FPS Economy/DGE/ Nuclear application**  |
| 12:15 | ***Lunch*** |
|  | Overzicht van de nucleaire technologieën: **Peter Baeten – Director General SCK CEN** |
|  | Critères de comparaison des technologies : **Philippe Monette – Expert in nuclear technology** |
|  | Focus on SMR technologies – A vision from the industry: **Anicet Touré - TRACTEBEL** |
| 14:45 | ***Coffee pause*** |
|  | Closing Fuel Cycle including P&T & SMRs; A game changer for nuclear energy:  **Hamid Ait Abderrahim - General manager of MYRRHA** |
|  | Economische aspecten van nucleaire ontwikkelingen: **Johan Albrecht – Prof. UGent** |
| 16:15 | Round Table with the speakers and representatives of the civil society |

**Program March,31 – 10h/16h**

**Visit SCK CEN at Mol:** Lakehouse - Boeretang, 201 - 2400 Mol

**Organizers & sponsors:**

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* **The number of participants is limited to 50 persons (first in).**
* **Separate registration is required not later than 20/03 according to the link sent after your registration:**

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| 10:00 | ***Arrival & Welcome – Lakehouse / Boeretang 201 – 2400 Mol*** |
| 10:15 | Presentation SCK CEN & main research lines: **Peter Baeten – Director General** |
| 10:45 | StudiePresentation MYRRHA Large research infrastructure: **Hamid AIT ABDERRAHIM – General Manager of MYRRHA**  |
| 11:15 | Presentation SMR initiative in Belgium: **Marc SCHYNS - Institute Director Advanced Nuclear Systems** |
| 11:45 | ***Q & A*** |
| 12:00 | ***Lunch*** |
| 13:30 | **Visit****MYRRHA** Heavy Liquid Metal Technology complex: **Hamid AIT ABDERRAHIM – General Manager of MYRRHA**Since the start of the MYRRHA project, SCK CEN has implemented an extensive R&D program to support the development of the reactor. A strong R&D program has especially been developed on the use of lead-bismuth (LBE), a liquid metal alloy, as a coolant for the reactor. Within this R&D program, SCK CEN has developed several facilities such as COMPLOT in which prototypes of control rods are tested. HEXACOM, combined with COMPLOT, tests the thermal dissipation of heat exchangers. MEXICO tests the oxygen regulation of LBE. With CRAFT, liquid metal corrosion on structural materials is tested. E-SCAPE studies the liquid and heat flows of LBE in the reactor vessel. RHAPTER verifies the utility of movable mechanical components in an LBE environment.Beside the research program supporting the development of the MYRRHA reactor, work is also being performed on ISOL@MYRRHA, a facility for the production of new radioisotopes. The focus of this research program is on achieving a high level of efficiency and purity. For this research program, specific test facilities are being built and used in “Labo2”. |
| 15:00 | ***Drink, discussion and network*** |
| 16:30 | ***Closure*** |

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| **SCK CEN** | **KBVE-SRBE** |
| **Peter BAETEN**Director-General | **Max. 50 personen** |
| **Hamid AIT ABDERRAHIM**General Manager of MYRRHA |  |
| **Marc SCHYNS** Institute Director Advanced Nuclear Systems |  |

# How to get to SCK CEN in Mol?



The address is “Boeretang 200, 2400 Mol”. Two neighbouring streets - Boeretang and Lichtstraat - are only accessible to employees of SCK CEN, VITO and Belgoprocess. If you want to get there easily, we recommend you enter the crossing between “Gravenstraat” and “Boeretang” in your GPS.

The visit starts at the **SCK CEN Lakehouse**. So, make a right turn before the main entrance and follow the “Lakehouse” sign. Enough parking spots are also provided.

**Visit KBVE – SRBE to SCK CEN**

 March 31, 2023

 SCK CEN | Boeretang 201 | 2400 Mol

**Participation fees**

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| --- | --- |
| Members SRBE-KBVE and SEE – Members KVAB - members from public federal and regional services  | 360,00 EUR |
| Non members  | 600,00 EUR |
| Teachers, professors  | 236,00 EUR |
| Young professionals (-30 year) | 100,00 EUR |
| Students (- 26 year) | 100,00 EUR |
| Retired professionals | 100,00 EUR |

Prices include taxes *(21%)*

*The participants will receive the contributions of the seminar, access to coffee and refreshments, lunch and after drink and access to SCK-CEN.*

*Visit to SCK-CEN is limited to 50 participants. The visit to the seminar has no limitations of attendees. For seminar only, a discount is 25% is applicable*

**Registration to the event before the 20/03:**

[**Click here to register**](https://kbve-srbe.be/en/events?event_id=41)

[*https://kbve-srbe.be/en/events?event\_id=41*](https://kbve-srbe.be/en/events?event_id=41)

**After your payment a separate registration will be required by email for the visit (the number of places is limited to 50):**

**For all questions regarding registrations, please contact us:**

**KBVE-SRBE - C/o Synergrid**

Patricia Matthys, Galerie Ravensteingalerij 4 box 2 - 1000 Brussel/Bruxelles

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"La SRBE met tout en œuvre pour respecter la loi sur la saine concurrence."

"*De KBVE stelt alles in het werk om de wet op de gezonde concurrentie na te leven”*