

# International Conference on Non-destructive Evaluation of Concrete in Nuclear Applications

25 - 27 January 2023  
Helsinki/Espoo, Finland

**REGISTRATION OPEN !!**

[www.aalto.fi/nde-nucon-2023/registration](http://www.aalto.fi/nde-nucon-2023/registration)

[nde\\_nucon@vtt.fi](mailto:nde_nucon@vtt.fi)



Organizing  
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# International Conference NDE NucCon 2023

## CONFERENCE INVITATION

On behalf of the Organizing and Scientific Committees, we would like to invite you to attend the International Conference on Non-destructive Evaluation of Concrete in Nuclear Applications (NDE NucCon 2023), in Espoo/Helsinki, Finland.

While NDE of reinforced concrete structures in civil engineering applications has a long history, within nuclear industry applications there are many specific challenges to NDE that justify a dedicated international event. This event is open to the owners of nuclear infrastructure (NPPs, waste repositories, etc.), regulators, technical support organizations and other conducting R&D, industry consultants, NDE specialists and academia.

We are committed to creating opportunities for professional development, for information sharing and dissemination, and for the continuous improvement in the field of concrete NDE. This event is intended to make your time here more beneficial, both professionally and personally. You will have numerous opportunities to interact directly with presenters who are at the cutting-edge of new topics and network with other professionals.

This event will help disseminate NDE solutions to solve real-life challenges applicable on site. For this reason, we hope to demonstrate NDE applications in our NDE Exhibition. Save the dates on your calendar and make plans to attend.

## GENERAL INFORMATION

The official website of NDE NucCon 2023 is <https://www.aalto.fi/nde-nucon-2023>. All news and information regarding the conference will be published on the site. Registrations will be directed through the website.

## CONTACT

To contact the Organizing Committee on any topic of interest, please use the email [nde\\_nucon@vtt.fi](mailto:nde_nucon@vtt.fi)

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## CONFERENCE TOPICS

- NDE for concrete characterization
- NDE for quality control and quality assurance
- NDE for damage detection of reinforced concrete structures
- Existing and emerging NDE technologies for concrete
- Non-contact NDE for difficult to assess structures
- NDE & robotics/automation for concrete
- NDE modelling and simulation
- NDE training, education and standardization
- NDE reliability and performance evaluation (POD etc.)
- NDE and data analytics, machine learning, machine vision, AI (interpretation, evaluation of the data and decision making)
- Remote inspections (e.g. drone & underwater)
- Data integration, digital transformation, BIM

## SPECIAL ISSUE Journal of Advanced Concrete Technology

Select papers will be recommended for the JACT special issue. These will be chosen by the Scientific Committee based on criteria such as the evaluations made by the reviewers, and by the Chairs of the sessions during which the papers will be presented.

## REGISTRATION / SPONSORS / EXHIBITION

Registration is now open! Use [this link](#).

## CONFERENCE FEES

Attendee	Registration fee
Participation with gala dinner	475 €
Participation without gala dinner	375 €
Student (without gala dinner)	150 €
ACES/PREDIS partners	350 €

Note: For the participant registration only Credit Card payment is accepted.

## Invited Key Note Speakers:

- **Prof. Ernst Niederleithinger** (BAM, Germany) – Nuclear concrete, and how to live with it more easy using NDE
- **Dr. Salvador Villalobos** (EPRI, USA) – Advancements for inspections of nuclear power plants
- **Prof. Jari Puttonen** (Aalto, Finland) – Ageing management of reinforced concrete for the safety of nuclear power plants



# International Conference NDE NucCon 2023

## Organising Committee

- Dr. Miguel Ferreira, VTT, Finland, Chair
- Dr. Edgar Bohner, Finland, Co-chair
- Dr. Fahim Al-Neshawy, Aalto University, Finland, Co-chair
- Dr. Ernst Niederleithinger, BAM, Germany, Co-Chair
- Dr. Vera Lay, BAM, Germany, Co-Chair

## Local Organizing Committee

- Dr. Tandr  Oey, VTT, Finland, Conference Secretariat
- Pirkko Kek lainen, VTT, Conference Secretariat
- Ville Sj blom, VTT, Conference Secretariat

## Scientific Committee

- Dr. Ernst Niederleithinger, BAM, Germany, Chair
- Dr. Salvador Villalobos, EPRI, USA
- Dr. Christoph Strangfeld, BAM, Germany
- Dr. Daniel Algernon SVTI, Switzerland
- Dr. Edgar Bohner, VTT, Finland
- Dr. Federico Navarro Casta o, Tecnatom, Spain
- Dr. Guy Rapaport, Ramboll, Finland
- Prof. Iikka Virkkunen, Aalto University, Finland

- Dr. Jacques Jabbour, IRSN, France
- Dr. Javier Sanchez, IETCC, CSIC, Spain
- Prof. Jean-Paul Balayssac, University of Toulouse, France
- Prof. John Popovic, U Illinois Urbana Champaign, USA
- Dr. Jos  Sillero Mar n, Tecnatom, Spain
- Prof. Jouni Punkki, Aalto University, Finland
- Prof. Odile Abraham, Universite Gustave Eiffel, France
- Dr. Phung Quoc Tri, SCK.CEN, Belgium
- Prof. Rosa Lo Frano, Uni Pisa, Italy
- Prof. Sylvia Ke ler, Helmut Schmidt University, Germany
- Tuomas Koskinen, VTT, Finland
- Dr. Vera Lay, BAM Germany
- Prof. Vincent Garnier, University of Marseille, France
- Dr. Zbynek Hlavac, CVRez, Czech Republic

## SPONSORS & EXHIBITORS

NDE NucCon 2023 welcomes companies to sponsor the event and also to participate in the NDE Exhibition. There are several levels of Sponsorship Packages, and possibilities for participating in the exhibition. Check the conference [website](#) for details.

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## VENUE

The event will be held at Dipoli, the main building of Aalto University, located in the Otaniemi campus in Espoo. It was designed by architects Reima Pietilä and Raili Pietilä (1966). Accessibility is excellent, being easily reached by metro, tram, and bus.

