

The Antenna

NEWSLETTER FROM A.N.T. INTERNATIONAL No.65 2026

Powering the Nuclear Renaissance Through Expertise

The Mission of A.N.T. International is to transfer the unique expertise of [The A.N.T. International Network](#) that developed the current nuclear industry to the new generation of engineers. Our business idea is to interpret world-wide R&D results and nuclear plant experience on fuel, structural materials and water chemistry for you as a customer, so that our customers can make informed decisions for the improved reliability, safety and economics of your operations.

A.N.T. International business idea is accomplished by several Tools such as [Annual Seminars](#), publications of [Reports and Handbooks](#), [A.N.T. International Wikipedia \(AWIKI\)](#), [Online Education](#) and [Consulting Services](#). Please visit our website to get more information about these Tools at antinternational.com.

This Newsletter provides information about the yearly successful Annual Seminar that started 30 years ago.



A.N.T. INTERNATIONAL SEMINARS



A.N.T. International extends its sincere gratitude to Iberdrola for graciously hosting our recent ZIRAT (nuclear fuel), and LCC (coolant chemistry and structural material degradation) Seminars in Spain. We are equally thankful to the 100+ participants representing 30 organisations across 13 countries who joined us for these events.

Designed to deliver value to engineers at every stage of their careers — from newcomers to seasoned specialists — the Seminars once again proved to be a great forum for knowledge exchange and professional development.

We are delighted that the events were so warmly received: attendees rated the Seminars an outstanding 4.6 out of 5 overall, reflecting the quality of the programme and the engagement of everyone involved.

Thank you to all who contributed to making these Seminars such a success. We look forward to welcoming you to future seminars.



Group photo of some of the ZIRAT and LCC participants. Ms. Mikaela Rudling, President of A.N.T. International, is in the front row, first from the left.

LCC21 PRESENTATION AGENDA

[JIAXIN CHEN](#) – CORROSION PRODUCTS IN PWR PRIMARY CIRCUITS: GENERATION, RELEASE, TRANSPORT, DEPOSITION, AND AGEING

[IVAN FAST](#) – PRACTICAL EXPERIENCE IN HANDLING COMBINED HIGH-DOSE-RATE (HDR) WASTE

[PIERRE GUILLERMIER](#) – SILICA CONTENT CURRENT GUIDANCES (AND THEIR GENESIS), SILICA MANAGEMENT IN PRIMARY WATER COOLANT

[JIŘÍ RAPOUCH](#) – EXPERIENCE WITH VVER WATER CHEMISTRY CONTROL

[ARMIN ROTH](#) – OVERVIEW OF AGEING MECHANISMS OF STRUCTURAL METALLIC MATERIALS IN NPPS

[JUAN DE DIOS SANCHEZ ZAPATA](#) – KEY EMERGING ISSUES AND RECENT PROGRESS IN PWR/VVER, BWR AND NEW REACTORS - KEY RESULTS FROM THE 2025 NPC CONFERENCE IN KOREA

Please click on the links to get more information about the Presenters

LCC21 FEEDBACK

“All speakers had a lot of experience”

LENA JOHANSSON

Deputy Head of Chemistry
KERNKRAFTWERK GÖSGEN
Switzerland

“I really enjoyed the Seminar”

LUCIANO MATÍAS DE BARBERIS

Head of Materials Engineering and Manufacturing Division
NUCLEOELECTRICA ARGENTINA S.A.
Argentina

*“Great lectures with very interesting content and
a lot of useful information”*

MAJA PRESKAR

Chemical Technology Lead Engineer
NUKLEARNA ELEKTRARNA KRŠKO, NEK
Slovenia

ZIRAT30 PRESENTATION AGENDA



[PIERRE BARBERIS](#) – ZIRCONIUM COMPONENTS:
PROCESSING AND MICROSTRUCTURE

[ZOLTAN HOZER](#) – VVER/PWR FUEL BEHAVIOUR DURING
NORMAL OPERATION IN A NUCLEAR REACTOR

[PETER RUDLING](#) – DELAYED HYDRIDE CRACKING DURING
INTERIM DRY STORAGE OF SPENT NUCLEAR FUEL

[PETER RUDLING](#) – OVERVIEW OF CORROSION AND HYDROGEN
PICKUP IN ZR ALLOYS IN BWRS, PWRS AND VVERS

[MARTIN STEINBRÜCK](#) – PROMISING ADVANCED TECHNOLOGY FUEL
CLADDING CONCEPTS: OVERVIEW AND UPDATE 2024/2025

[NICOLAS WAECKEL](#) AND [PETER RUDLING](#) – PELLET CLADDING
INTERACTION (PCI) - STRESS CORROSION CRACKING (SCC)

[JINZHAO ZHANG](#) – FROM ACCIDENT TOLERANT FUEL TO ADVANCED
TECHNOLOGY FUEL: OUTCOMES OF THE IAEA TECHNICAL MEETING
ON 28 – 31 OCTOBER 2025

Please click on the links to get more information about the Presenters

ZIRAT30 FEEDBACK

“It was a highly valuable and informative Seminar”

CELIA GONZÁLEZ

Nuclear Fuel specialist

INGENIERÍA Y DIRECCIÓN DE OBRAS Y MONTAJE, IDOM
Spain

“There was a nice gradient from the basics to more advanced information and discussions for each speaker. It was easy to follow because they didn’t skip over the fundamentals”

EVELINA WIKSTEN

Fuel Engineer

FORSMARK NUCLEAR POWER PLANT
Sweden

“Every speaker was able to answer every question — excellent knowledge of their topics.”

HÜSEYİN AZAZOĞLU

Cask Design Manager

GESELLSCHAFT FÜR NUKLEAR-SERVICE MBH, GNS
Germany

“It was a great seminar. The lectures provided plenty of useful information and were covering each of the topic in a very detailed manner”

JAKUB PRZYBYLSKI

Nuclear Fuel Engineer

ÉLECTRICITÉ DE FRANCE-UK
UK

“A.N.T. International has been an enormous help with the daily challenges we face as an operator and designer of a prototype Pressurized Heavy Water Reactor (PHWR). Great seminar — insightful sessions and excellent networking”.

EZEQUIEL MATIAS FERNANDEZ

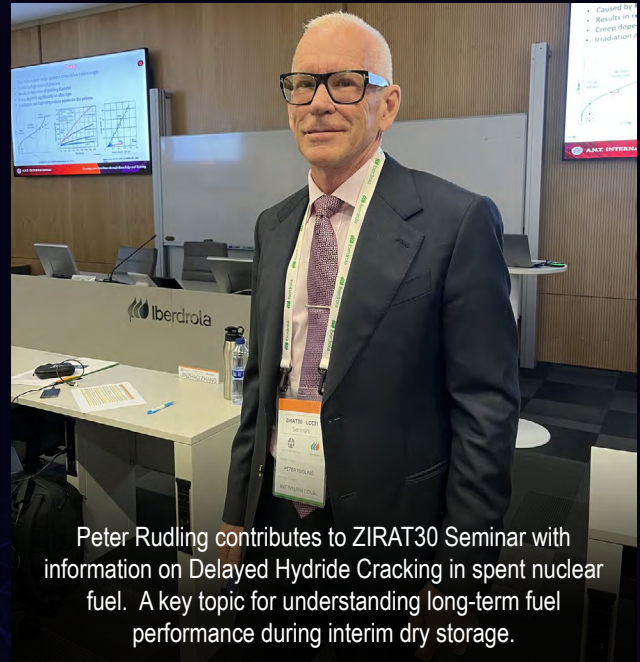
Head of Materials Engineering and Reactor Internals Design

NUCLEOELECTRICA ARGENTINA S.A., NA-SA

Argentina



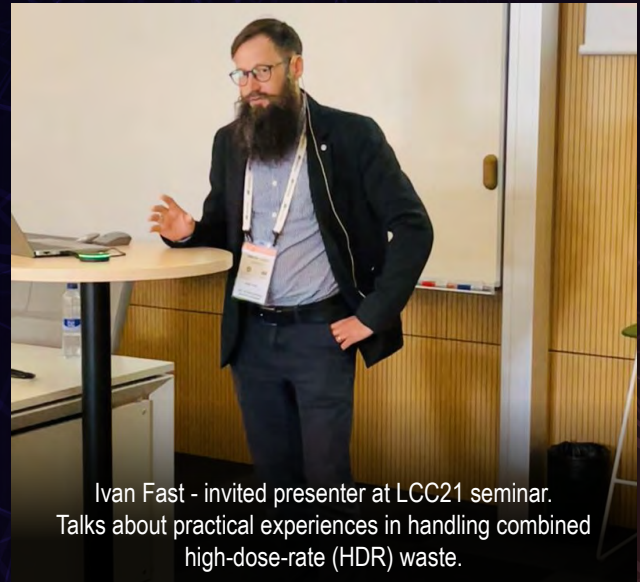
At LCC21 Seminar, Juan de Dios Sánchez shares key perspectives on emerging issues and recent progress across reactor types. A valuable contribution bridging operational experience and future challenges.



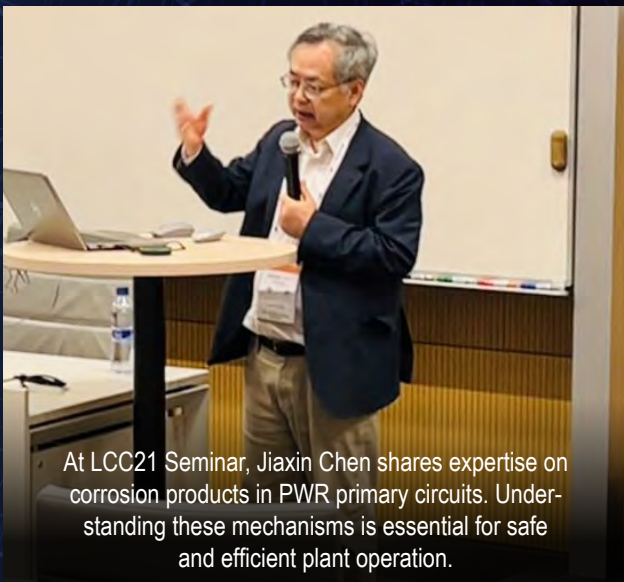
Peter Rudling contributes to ZIRAT30 Seminar with information on Delayed Hydride Cracking in spent nuclear fuel. A key topic for understanding long-term fuel performance during interim dry storage.



We are glad to feature Jinzhao Zhang at ZIRAT30 Seminar. His presentation highlights advanced technology fuel outcomes, contributing to the future of fuel design.



Ivan Fast - invited presenter at LCC21 seminar. Talks about practical experiences in handling combined high-dose-rate (HDR) waste.



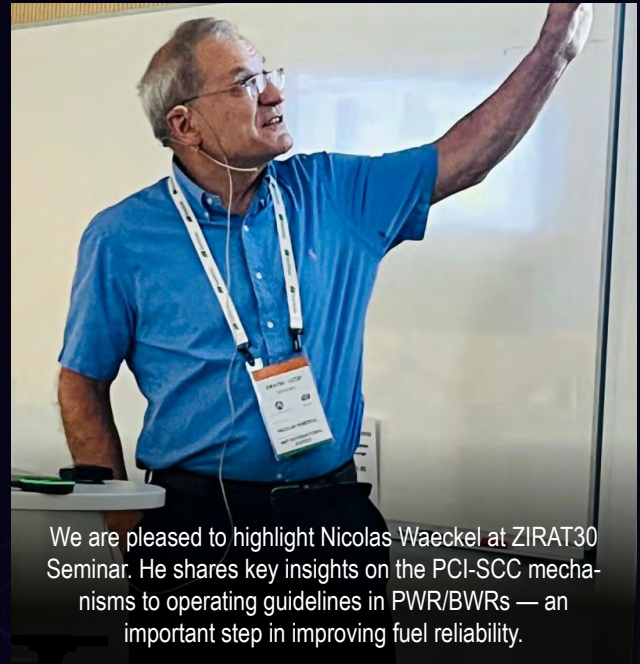
At LCC21 Seminar, Jiaxin Chen shares expertise on corrosion products in PWR primary circuits. Understanding these mechanisms is essential for safe and efficient plant operation.



Martin Steinbrück shares insights into ATF cladding development at ZIRAT30 Seminar. A critical area for enhancing accident tolerance in nuclear fuels. Martin also leads all the presentations at the ZIRAT30 Seminar.



At ZIRAT30 Seminar, Pierre Barberis presents on zirconium components processing and microstructure. His work connects manufacturing processes with in-reactor material behaviour.



We are pleased to highlight Nicolas Waeckel at ZIRAT30 Seminar. He shares key insights on the PCI-SCC mechanisms to operating guidelines in PWR/BWRs — an important step in improving fuel reliability.



Pierre Guillemet presents at LCC21 Seminar on silica behaviour and management in primary water systems. A key topic for maintaining long-term system integrity.



We are pleased to feature Jiri Rapouch at LCC21 Seminar. His insights into VVER water chemistry control bring important operational learnings to the international community.



A.N.T. INTERNATIONAL®

*Boosting your Excellence through
Knowledge and Training*



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CONTACT

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to contact us at sales@antinternational.com

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information www.antinternational.com