



A.N.T. INTERNATIONAL®

Boosting your Excellence through Knowledge and Training

OUR PRODUCTS AND SERVICES



THE COMPANY

- ANT International – Advanced Nuclear Technology International was founded in 2001 and is run by its owners Mikaela and Peter Rudling
- ANT International consists of:
 - A world class Network of Experts
 - The office in Nääs Fabriker, Tollerred, Sweden with a management staff
- The mission of ANT International is to transfer the unique expertise of the Experts, that developed the current nuclear industry, to the new generation of engineers. The goal is to improve safety and profitability throughout the nuclear industry.



UNIQUE KNOWLEDGE AND INDEPENDENCE

Through the Experts we can provide unique knowledge and experience in the nuclear field. The Experts were the leaders of the nuclear technical community that developed the current nuclear industry.

The Experts in fuel material, structural material degradation and coolant chemistry & corrosion have more than 1000 years of experience working for fuel/reactor vendors and nuclear utilities.

ANT International and the Experts are independent, i.e., they do not rely on fuel/reactor vendors and the information provided in our products and services is unbiased and analysed with a bird eyes view on the business.



OUR PRODUCTS AND SERVICES

Through the Experts we can provide unique knowledge and experience in the nuclear field. We specialize in providing expert training and knowledge in the areas of fuel material, structural material degradation and coolant chemistry & corrosion.

The products and services which we provide in these three areas are:

- Annual Educational Programmes
- Handbooks & Reports on current issues
- Nuclear Wiki
- Online Education
- Seminars
- Expert Consultation services

There are three different Annual Programmes related to:

- Nuclear Fuel for:
 - » Nuclear utilities, Engineering Organisations and Laboratories (ZIRAT) and
 - » Regulators and Fuel Vendors (IZNA) and
 - Coolant Chemistry and Degradation of Structural Materials (LCC).
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Scan or click the QR-code to read more about ZIRAT



Scan or click the QR-code to read more about IZNA



Scan or click the QR-code to read more about LCC

ANNUAL PROGRAMMES

The overall objective of the Annual Programmes is to enable the Members to:

- Identify potential advantages and limitations as well as suggest solutions for current issues in:
 - » the nuclear fuel, interim/final storage of spent nuclear fuel/nuclear wastes and
 - » coolant chemistry and, structural material degradation.
- Establish an independent meeting point for experts to enable free and critical discussions and experience exchange.

Our annual programmes are different from other national or international programmes because it offers to the member on a yearly basis the only in-depth comprehensive, periodic, timely review and analysis of all the new data in the public domain.



HANDBOOKS & REPORTS ON CURRENT ISSUES

ANT International has up to now published more than 130 different Reports (200–500 pages each). On our website you can read a sample of each Report. We publish more than 10 Reports every year.


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AWIKI

All information related to fuel and structural materials and plant chemistry is provided through our searchable electronic tool – ANT International Nuclear Wiki.


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“Combining 20 years of nuclear power chemical operation experience with A.N.T. Internationals’ online training has given me a deeper and broader understanding of how chemistry affects/interacts with the fuel, radiation protection and structural materials. I will greatly benefit from this knowledge provided by A.N.T. International in my current role. Since the courses are online-based, I have been able to participate when it fits my agenda. The presentations are educational with easy understanding slides presented by expertise within the area and it is e.g. easy to pause the course to look a little more closely at some slides or to immerse yourself in the accompanying reports that are included in many of the courses.

I highly recommend A.N.T. Internationals’ courses. The introduction courses are suitable for the engineer with a little less experiences and the advanced courses suits senior engineers, supervisors and others with more experience in the area.”

FREDRIK EHRLÉN

Primary Chemistry Specialist
Ringsås Nuclear Power Plant

ONLINE EDUCATION

ANT International Academy provides a variety of courses in the areas of fuel material, structural material degradation and coolant chemistry & corrosion and interim wet and dry storage of spent nuclear fuel and final storage of nuclear waste.

The online approach provides the freedom to complete the course at each individual’s pace which is highly appreciated by busy professionals and nuclear engineers. Since the training takes place online it is highly cost effective for you as a customer, while still providing a required qualification with up to date nuclear training.

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the QR-code
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“This was my first Seminar and I was very impressed. It was very informative and have learned a lot. Networking was great too.”


NATHAN LEE

*Engineer - Nuclear Chemistry, Materials,
Chemistry and Corrosion*
ROLLS-ROYCE

SEMINARS

Tailored Seminars on site of the Customer or remotely, e.g. via Teams or Zoom. The topics of the Seminar are tailored to fit the needs of your organisation/company and are suitable for specialized engineers as well as engineers entering a new field. The length varies from one to three days.





“Based upon the A.N.T. International updated knowledge and international experience, A.N.T. International is the strategic partner in Materials Technology to manage material reactor vessel internal issues and develop material degradation models for service and evaluate the structural integrity of the reactor vessel materials.

A.N.T. International gives fast feedback on our questions and can support in solving plant problems and assist in different research projects because of their experienced team of Experts. In particular, they helped us in developing specific methodologies to assess material degradation for Long Term Operation, LTO.

MR. JUAN RAMOS NERVI

Engineer - Nuclear Chemistry, Materials,
Materials and Micromechanics Division Head
NUCLEOELÉCTRICA ARGENTINA S. A.

EXPERT CONSULTATION SERVICES



Consultation and technical support services for ANT International customers. Limited work done by The Network – free of charge. Significant work will be charged separately.

Examples:

- Basic ZR Alloy knowledge
- Reactor and Fuel Design Review
- Fuel Manufacturing Surveillance
- Licensing of nuclear fuel
- In-reactor performance during normal operation, anticipated operational occurrences and design basis accidents
- Fuel performance during interim dry/wet storage
- Testing examinations of claddings and fuel materials
- Thermal-hydraulic analysis
- BWR/PWR/VVER coolant chemistry/corrosion
- Radiochemistry
- Nuclear decommissioning & dismantling
- Structural material degradation



OUR CUSTOMERS

World-wide over 100 organisations in over 25 countries are our customers.

This includes:

- Utilities with more than 230 nuclear units
- Nuclear Fuel and Reactor Vendors
- Engineering companies
- Research laboratories
- Research reactors
- Regulators
- Universities



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