

The Antenna

NEWSLETTER FROM A.N.T. INTERNATIONAL No.57 2023

25 NEW ONLINE COURSES!

The interest is dramatically increasing of our unique Online Education courses in the Nuclear Industry areas of:

- Nuclear Fuel
- Coolant Chemistry/Corrosion
- Structural Material Degradation
- Thermal Hydraulics and Neutronics
- Interim/Final Storage of Spent Nuclear Fuel/Nuclear Waste

A.N.T. International has just published 25 new Online Education Courses, now totalling 65 Online Education Courses. The online approach provides the freedom to complete the course at each individual's pace. 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.

Currently 150+ nuclear engineers/managers/students worldwide with knowledge ranging from no nuclear experience to expert level are taking an A.N.T. International Online course from 30 different companies/organizations such as Utilities, Regulators, Laboratories, Reactor/Fuel Vendors, Engineering Organizations and Universities, from 11 different countries. The average rating/(from 1-5, 5 being the highest) from the Online Education participants is 4.2.

A participant can either just take one course of a specific interest or participate in a several years education programme consisting of several courses in a specific order dependent on the interest and background of the participant.

After each course has been completed a certificate is issued.

ONLINE EDUCATION BROCHURE

SEE A SAMPLE VIDEO



CUSTOMER FEEDBACK



Dr. Lustolde Martínez Laorden

Product Engineering
ENUSA, Spain

"Thanks to an ANT INTERNATIONAL specific course, I had my first academic contact with the metallurgy of zirconium alloys in which the most relevant aspects of the alloys used in the fuel cladding were described. This course allowed me to get an in-depth understanding of the behavior of zirconium alloys under operation and accidental conditions such as mechanical behavior, irradiation effects or corrosion. Other recent acquisitions of A.N.T. International Online Education Courses were related to the characterization of irradiated materials in hot cells or a complete description of all related aspects of the PWR nuclear fuels. All of them perfectly met ENUSA's requirements and those of our customers. Several young engineers in ENUSA are continuously improving their skills taking advantage of the knowledge gathered with A.N.T. International excellent Online Education Courses."



Fredrik Ehrlén

Primary Chemistry Specialist
Ringhals Nuclear Power Plant, Sweden

"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."



Jianfei Wei

Fuel Engineer
TCO EDF

"The online education satisfied the continuous improvement requirements for a dozen colleagues from our department at different proficiency levels. Some of us took the course as a basic level stepping stone for subsequent role-specific training. Others used advanced/expert level courses to enjoy the knowledge transferring from renowned maestro of respective fields. As a supplementation we recommend examining the current ZIRAT annual report for latest progress."

Covid-19 lockdown led to many restrictions whilst opening the opportunity for one to better one's technical apprehension. The convenience of education at one's own ease prompted a proposal and later a purchase order for 20 different A.N.T. International courses. The proposal satisfied a dozen or so colleagues' continuous improvement requirements in thermal hydraulic, fuel material, structural material degradation and coolant chemistry & corrosion technical areas. Various subjects in each technical areas, with proficiency levels ranging from basic to expert, provide coverage impressive in terms of both breadth and profundity."

THE MOST RECENT A.N.T. INTERNATIONAL EXPERTS



DR. JUNICHI TAKAGI

Dr. Junichi Tagaki is a Chief Specialist in Toshiba Energy Systems & Solutions Corporation in the fields of water chemistry, radiation chemistry, water treatment systems, radwaste treatment systems, decontamination & decommissioning, Fukushima recovery issues, and so on. He has more than 38 years of experience after entering Toshiba Corporation and recently has been devoted to the Fukushima contaminated water treatment and fuel debris retrieval activities.

He received a Doctor's Degree of nuclear engineering from the University of Tokyo in 1985. He is a fellow member of the Atomic Energy Society of Japan and has been devoted to the Water Chemistry Division since its establishment. He has long been working for the BWR plant construction and maintenance business including radiation exposure reduction and SCC preventive maintenance. He has created the BWR primary loop water chemistry simulation model to predict the corrosion environment of the BWR plants.

After the Fukushima accident in 2011, he has been engaged in the establishment of the contaminated water treatment systems and the development of the fuel debris retrieval process. One of the recent topics is the contribution of the alpha radiolysis to the safety evaluation of the debris retrieval system, especially a hydrogen generation issue.



DR. MATTIAS VIERTEL

Dr. Mattias Viertel received his Ph.D. degree in Physics in 2006 at Paul Scherrer Institute (PSI) and ETH Zürich, Switzerland. After the PhD studies he developed mathematical models and code for commercial software's in the colorimetry field. In 2009 Mattias joined Studsvik Nuclear and supported various projects within the nuclear industry with both dose calculations, radiation shielding design and thermal hydraulic simulations. In 2017 to 2020 he was technical manager of Studsvik Consulting. Since 2020 Mattias is the owner of ALARA Engineering and continue to support the nuclear, medical and space industry.

Main areas of interest:

Particle transport and activation

- Mattias has been the main responsible for the model development and calculation of the neutron induced inventory in several decommission projects. He is the key person for the induced inventory in Barsebäck 1 and 2, as well as for Oskarshamn 1 and 2.

Radiation shielding

- Mattias was the key designer of the radiation shield of SKB's transport vessel m/s Sigrid
- He made numerous shield designs for both nuclear and medical industry

Reactor water chemistry

- He is engaged in projects investigating the impact of dissolved hydrogen and nitrogen on the reactor chemistry in LWR using the Studsvik code LwrChem

Mattias has three children and the whole family spend most of their free time out in the nature, in the mountains, the forest or on water.

Through A.N.T. International independent World Class Network of 40 Experts we can provide unique knowledge and experience in the nuclear field.

**READ MORE ABOUT
OUR EXPERTS »**



A.N.T. INTERNATIONAL®

CONTACT

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to contact us at sales@antinternational.com

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