

COMING UP

REMEMBER
to sign up
for ZIRAT12
and LCC3!

ZIRAT12 and LCC3 February 2008

Please read more and sign up
at www.antinternational.com

ZIRAT12: USA, February 4-6, '08.
Europe, February 18-20, '08

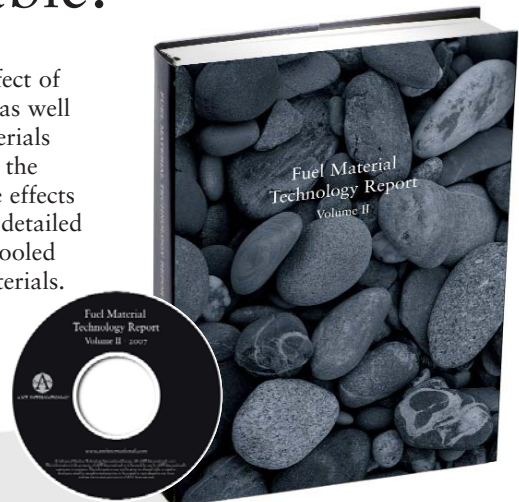
LCC3: Europe, February 21-22, '08.

NEW REPORT: FUEL MATERIAL TECHNOLOGY REPORT VOL II

FMTR Volume II - Now Available!

The FMTR vol II covers the effect of radiation on the fuel materials as well as the interaction between materials and cooling water chemistry in the radioactive environment. These effects are treated in a systematic and detailed manner for all types of water cooled nuclear fuel and associated materials.

[Read more about
the FMTR vol II here](#)



“ZIRAT – We highly value the Information and the Expert Network”

◀ In order to keep up with world class results in our nuclear operations in Olkiluoto, TVO needs the best information available also about developments and experiences in the area of nuclear fuel. In that respect, your products complement well the information we get from our fuel suppliers and other top consultants.

The ZIRAT Annual Reports are excellent summaries of the knowledge and the new information that has been published in magazines and conferences during the

previous year in the area of fuel material development, fuel behaviour and fuel experiences. Within a power company it is not possible to have experts for everything and to spend time to follow all that takes place in the business. ZIRAT meetings also give the possibility for our specialist to meet colleagues and to have discussions with the very experienced ANT International Network.

*Ilkka Mikkola
Manager, Fuel Procurement
TVO, Finland.*



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ZIRAT12 AND LCC3 REPORTS



[Read more about
the ZIRAT12 Reports here](#)

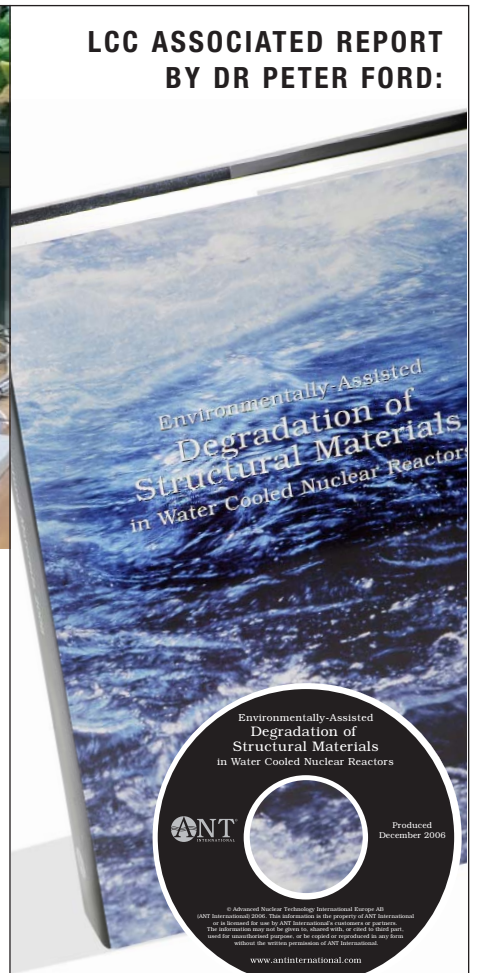
[Read more about
the LCC3 Reports here](#)

FUEL VENDOR



Suat Odar

LCC ASSOCIATED REPORT
BY DR PETER FORD:



Opinion on "Structural Material Degradation Report"

RENATE KILIAN, RESPONSIBLE FOR CORROSION ISSUES &
SUAT ODAR, RESPONSIBLE FOR POWER PLANT CHEMISTRY
AREVA NP GmbH, GERMANY

As senior experts, we are responsible for power plant chemistry issues and corrosion aspects respectively in AREVA NP GmbH. In our power plant chemistry and corrosion groups we are providing not only support for the design, construction and commissioning of nuclear power plants in chemistry and corrosion related issues, but also performing world wide consulting services for utilities, mainly with respect to improve the operating (thermal & corrosion) performance of their plants, e.g. steam generators. This work requires in wide range knowledge and experience in relationship between chemistry environmental conditions, materials and design of systems and components.

As in every where in the nuclear industry, also in our company the most experienced people are either already retired or are going to retire soon. To compensate this we are hiring new young engineers and chemists and trying to transfer our expertise and know how, as quick and effective as possible to our young colleagues. For this purpose I have joint last year with our new collea-

gues to LCC program organized by ANT International. This seminar gave us the opportunity also to learn and to purchase the Structural Material Degradation Report (SDMR).



Renate Kilian

We, Renate and Suat, are impressed from the quality of its content and also layout of this report. This report summarizes the knowledge of material degradation mechanism, gained maybe in the last thirty years by laboratory testing or field experience. Even we – nuclear industry pioneers – had the opportunity to learn and discuss all this experience in the past by attending to numerous conferences or work-shops, we are often not able to remember all details anymore as described in this report.

The report is well and understandable written. For younger engineers, it can serve educative for self studies, so that they don't block their senior colleagues, who are needed for other tasks. Even for senior engineers, this report can support them as reference either for establishing their consulting work either for selecting the materials and/or designing the systems and components.

*The objective of the
"Structural Material
Degradation Report"
is to:*

1. provide guidance for those needing to get an introduction to and an initial understanding of structural materials degradation in light water reactors or
2. update and refresh the memory of those with materials background.

The audience to whom this Report is directed comprises those people who are relative newcomers to this field, who may not be completely up-to-date on (a) the mechanisms of the various modes of degradation and (b) the effect of various interactions of material, environment and, in many cases, stress on the extent of degradation.

The Report covers the range from basic information to current knowledge. The Report is written and explained in such a way that those not familiar with the topic can easily follow the report, and can find and grasp the appropriate information. This means that the Report could be used by the organisation in the training of their internal staff with or without additional assistance from the ANT International staff.

[Read more about SMDR](#)

FROM ALL OF US, TO ALL OF YOU

Happy Holidays!



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