

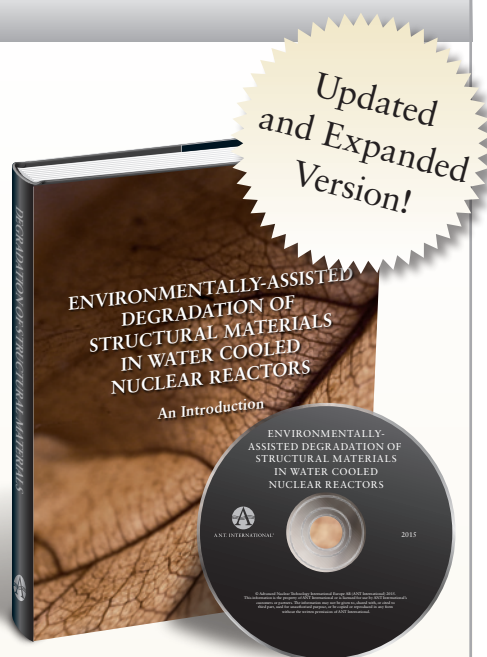
MATERIAL DEGRADATION


ENVIRONMENTALLY-ASSISTED Degradation of Structural Materials in Water Cooled Nuclear Reactors – An Introduction, is an updated and expanded version of the ANT International Report entitled *Environmentally-Assisted Degradation of Structural Materials in Water Cooled Nuclear Reactors* authored by Dr. Peter Ford and published in 2006.

The objective of this Report is twofold: first, to provide an updated edition of the 2006 Report cited above and, second, to provide a textbook that complement the 4-day Webinar on environmentally-assisted degradation of structural materials.

The Report is intended for people new to the subject, or who need a “refresher” on the essential factors behind component failures and the subsequent mitigation actions. Such a focus is critical at this time, given the ongoing retirement of experienced personnel and the loss of “corporate memory” relating to the management of materials degradation. This loss is being felt in areas of reactor license renewal, power uprates, load following, and the certification and construction of advanced designs of both BWRs and PWRs.

The authors of this revised and expanded Report are Dr. Peter Ford, Dr. Peter Scott, Dr. Pierre Combrade and Mr. Claude Amzallag.



Product information 

Sample 

More about the authors



Dr. Peter Ford



Dr. Peter Scott



Dr. Pierre Combrade



Mr. Claude Amzallag

**Feedback on the
Material Degradation in LWRs
Seminar:**

*“Very good seminar,
keep on organising it!”*

VIOLETA CALIC
NEK

*“The theoretical information was
huge and amazing as well as the
knowledge of the speakers.”*

JESUS HERNANDO PEREZ
Iberdrola

*“Very good impression in general,
especially the high knowledge level
of the speakers.”*

IRENE DE NAVAS GUTIÉRREZ
ENUSA

*“The lecturers are top of the class,
able to explain their knowledge
in a very clear way”*



LAURA TAIVALAHO
STUK

*“Quite a lot of the background
and the contacts I got here can
help me in the process”*



MACHIEL BOS
EPZ

IN THE SAME series there are four detailed Reports that analyse the behaviour of structural material degradation of various alloys commonly used in Pressurized Water Reactors (PWR/VVER) and Boiling Water Reactors (BWR).

Environmentally-Assisted Degradation of Carbon and Low Alloy Steels in Water Cooled Nuclear Reactors (LCC4 Special Topic Report) authored by Dr. Peter Ford and Dr. Peter Scott in 2008.



Sample 

Environmentally-Assisted Degradation of Stainless Steels in LWRs (EADS) authored by Dr. Peter Ford, Dr. Peter Scott and Dr. Pierre Combrade in 2008.



Sample 

Environmentally-Assisted Degradation of Nickel-Base Alloys in LWRs (EADN) authored by Dr. Peter Ford, Dr. Peter Scott and Dr. Pierre Combrade in 2011.



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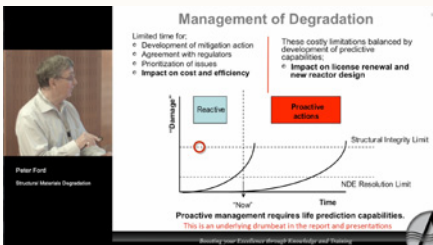
High Strength Nickel Alloys for Fuel Assemblies (IZNA12 Special Topic Report) authored by Mr. Al Strasser and Dr. Peter Ford in 2012).



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THE ASSOCIATED WEBINAR consists of a recorded live Seminar, with enhanced slides and sound, streamed from the ANT International website. Each topic covered in the Webinar is referred to in the Environmentally-Assisted Degradation of Structural Materials in Water Cooled Nuclear Reactors – An Introduction, to allow the digestion of relevant background information before watching the Webinar.

Lecturers are Dr. Peter Ford, Dr. Peter Scott and Dr. Pierre Combrade.



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For further questions and inquiries, please contact Angela Olpretean; angela.olpretean@antinternational.com or phone; +46 (0)70-263 13 77.

“The seminar is very good, especially for young people coming into the nuclear field”



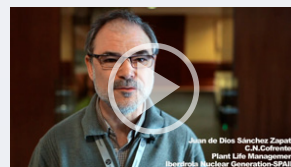
RAYMOND VAN BEUSEKOM
EPZ

“The kind of information that have been given during these seminars is just not available currently at the universities”



KARI MÄKELÄ
STUK

“It’s a good opportunity to get a general view of degradation mechanisms, solutions, modeling etc.”



JUAN DE D. SANCHEZ ZAPATA
Iberdrola



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