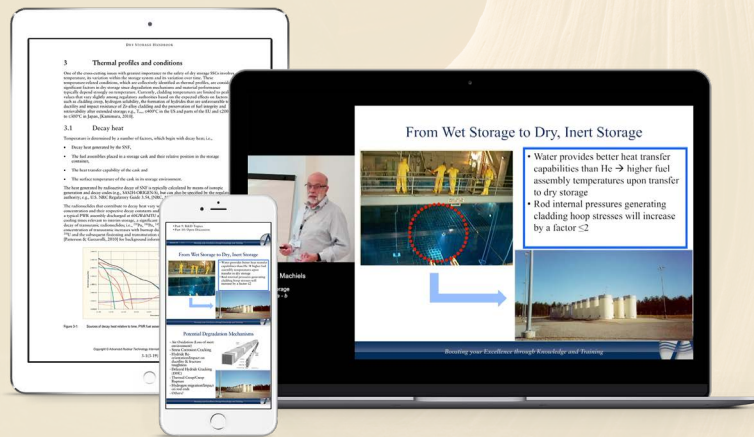


## NEW ONLINE EDUCATION COURSE

# Interim Dry Storage

by A.N.T. International Academy



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THIS COURSE GIVES AN OVERVIEW of Interim Storage of Spent Fuel and will provide engineers/managers with the necessary background to understand more complicated information. Interim storage of spent fuel will be required until there is sufficient capacity in permanent geologic repositories or until more advanced technology options become available. Spent fuel is first stored in pools (ponds) located within the nuclear power plant facilities.

Given the limited capacity of these installations, additional storage capacity located at either centralised or reactor site facilities are required. In this seminar, the focus will be on the

performance of commercial LWR fuel assembly components, with emphasis on Zircaloy-based alloy cladding, during long-term storage of the spent fuel in a dry, inert environment such as helium. Potential degradation mechanisms of cladding alloys will be examined under normal and offset conditions of storage. Changes in cladding mechanical properties will be reviewed in order to properly assess the impact of interim storage upon subsequent spent-fuel management activities, such as transportation.

CONTACT US FOR MORE INFORMATION:  
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# KEY FEATURES



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Download the PowerPoint presentations right before the start of each lecture.



## ADDITIONAL CONTENT

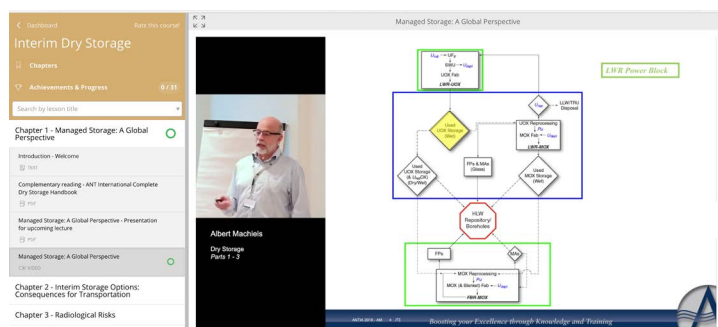
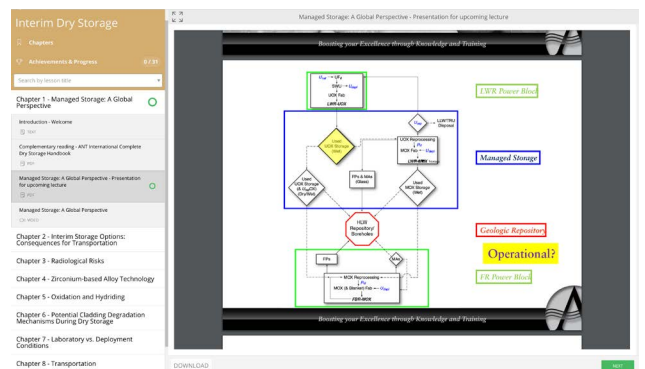
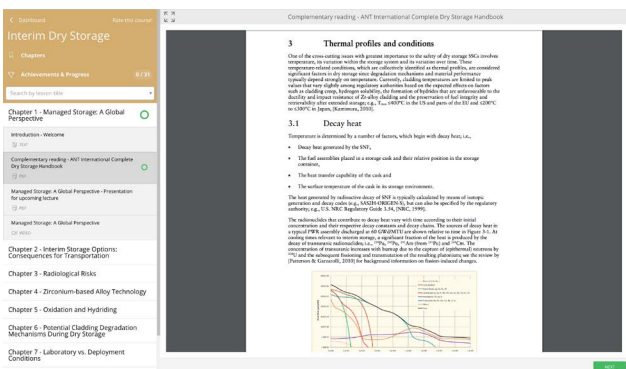
With this course you will also have full access to the Interim Dry Storage Handbook, authored by Dr. Charles Patterson and Mr. Friedrich Garzarolli.



## GET A CERTIFICATE

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# SCREENSHOTS



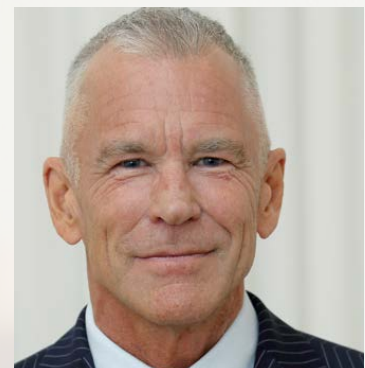
## THE LECTURERS



**Dr. Albert Machiels**

*Dr. Albert Machiels* retired in June 2017 from the Electric Power Research Institute [EPRI] located in Palo Alto, California, where he was responsible for providing technical expertise on topics related to spent fuel management, fuel cycles, and advanced generation technologies. Dr. Machiels has 50 years of involvement in various fields of nuclear technology R&D, including faculty and program direction positions at several universities and EPRI. In 2012, Dr. Machiels received a Lifetime Achievement Award for his numerous technical contributions to nuclear technology. He holds Chemical and Nuclear Engineering degrees from the Université of Liège, Belgium and a PhD degree in Engineering from the University of California, Berkeley.

*Mr. Peter Rudling* was a senior consulting scientist at Vattenfall, the largest Swedish power company. Earlier he has also been a Specialist of Fuel Materials at ABB Atom (now Westinghouse) and a Project Manager at EPRI. Peter is the President of ANT International, managing the ZIRAT/IZNA/LCC programs as well as providing seminars and Handbooks on various fuel related topics to the nuclear industry.



**Mr. Peter Rudling**

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# COURSE CURRICULUM

1. Managed Storage: A Global Perspective
2. Interim Storage Options – Consequences for Transportation
3. Radiological Risks
4. Zirconium-based Alloy Technology
5. Oxidation and Hydriding
6. Potential Cladding Degradation Mechanisms During Dry Storage
7. Laboratory vs. Deployment Conditions
8. Transportation
9. Selected R&D Topics

# ADDITIONAL MATERIAL

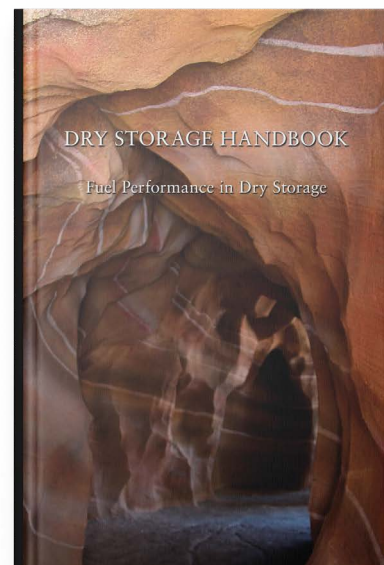
## DRY STORAGE HANDBOOK Fuel Performance in Dry Storage (DSH)

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*By purchasing this course, you will have access to an electronic version of the Dry Storage Handbook at no additional cost.*

### About the handbook

This handbook contains a technical assessment of the expected performance of spent nuclear fuel (SNF) during extended dry-storage time periods and the condition of such fuel at the end of dry storage. The principal focus of the reviews is on SNF and the effects of dry storage rather than on dry-storage containers and the related storage facilities. The objective is to provide background information on the likely behaviour of materials comprising water reactor fuel assemblies and on the performance of integral assemblies under conditions typical of dry storage for extended intervals of time. In brief, the technical assessment supports a conclusion that, although technical issues have been postulated with regard to long-term storage, there are no high-risk concerns with the extension of dry storage to long times; with proper planning and implementation, the risks are expected to be low.



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