

A.N.T. INTERNATIONAL ACADEMY SEMINARS



SHANGHAI, CHINA – OCTOBER 2019



Invitation and Seminar Schedule of A.N.T. International Academy Seminars

Shanghai, China – October, 2019

Organized by:



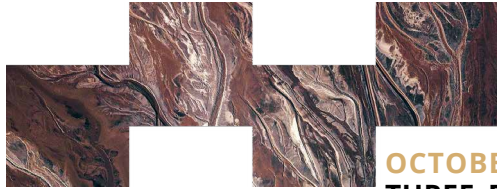
A.N.T. INTERNATIONAL®



上海核工程研究设计院有限公司
SHANGHAI NUCLEAR ENGINEERING RESEARCH & DESIGN INSTITUTE CO., LTD.

A.N.T. International Academy Seminars

Shanghai, China
15-17th OCTOBER 2019



**OCTOBER 15TH – 17TH
THREE-DAY SEMINAR**

This course is directed at engineers, and materials scientists interested in how a certain microstructure is achieved during manufacturing and how the resulting microstructure impacts fuel performance during normal operation, anticipated operational occurrences as well as during design basis accidents.

ZR ALLOY BASICS AND IN-REACTOR PERFORMANCE



CLICK HERE TO SIGNUP

You will be able to access all the presentation slides before the seminar.

Topics to be covered:

- **Zr Alloy Structure and anisotropy**
Anisotropy, deformation mechanisms, texture development mechanical properties
Phase diagrams and control of microstructures
Basis of mechanical behaviour of Zr alloys
Alloy components and processing to obtain specific properties (e.g. corrosion, HPU, PCI)
- **Behaviour under irradiation**
Irradiation effects. Effects on microstructure. Creep and growth
Mechanical behaviour and deformation mechanisms before and after irradiation
Corrosion and HPU mechanisms
Impact of H Pick-up and impact on fuel assembly component behaviour
Pellet-cladding interaction (PCI) and Pellet cladding mechanical interaction (PCMI)
- **Design base accident**
RIA clad behaviour
High temperature oxidation and LOCA behaviour

A.N.T. INTERNATIONAL ACADEMY – SEMINAR PRICES

3-DAY SEMINAR

Participant no.	1	2	3	4	5	6	7	8	9	10
Price (USD)	2 000	1 500	1 000	750	750	750	750	750	750	750
Total price (USD)	2 000	3 500	4 500	5 250	6 000	6 750	7 500	8 250	9 000	9 750

Contact us for more information: seminar@antinternational.com

A.N.T. International Academy Seminars

Shanghai, China
18th OCTOBER 2019

THIS SEMINAR IS FREE OF CHARGE!



SEMINAR ON FUEL
PERFORMANCE

CLICK HERE TO
SIGNUP TO THIS
SEMINAR FOR FREE

You will be able to access
all the presentation slides
before the seminar.

OCTOBER 18TH
ONE-DAY SEMINAR



Topics to be covered:

- **Zr Alloy Corrosion and Hydrogen Pickup**
by: Peter Rudling
- **Zr Alloy Irradiation Growth and Creep**
by: Malcolm Griffith
- **NuStar's Vendor-independent PWR Core Analysis Code
and its Value to Utilities**
by: Shaohong Zhang



SEMINAR CERTIFICATE



A.N.T. International
Academy

Certificate

of training awarded to

John Doe

for successful completion of a three-day Seminar on:

Fuel Performance

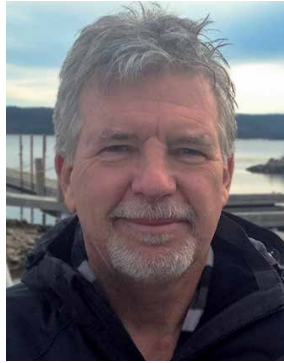
October 17th, 2019

A handwritten signature in black ink, appearing to read 'Peter Rudling', is positioned above the printed name.

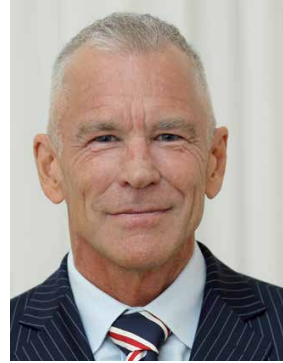
PETER RUDLING
President

A certificate (PDF-format) of participation will be issued upon request.

SEMINAR LECTURERS



Dr. Malcolm Griffiths
[*read biography*](#)



Mr. Peter Rudling
[*read biography*](#)

Invited Speaker



Dr. Shaohong Zhang is the President and key founder of Shanghai NuStar Nuclear Power Technology Co., Ltd, which is currently the only private company in mainland China that is capable of providing vendor-independent commercial reactor core analysis codes and related services. He obtained his degree in 1997 from Nuclear Engineering Department of Xi'an Jiaotong University, where he then worked for five years in the area of reactor physics and numerical methods. In 2002, he joined School of Nuclear Science and Engineering, Shanghai Jiaotong University and created a new reactor physics group there. He was the group leader till he quit his professorship in 2011. The focus of Dr. Zhang's scientific interests is LWR core analysis method and its practical applications. He is currently the committee member of Nuclear Reactor Mathematics and Computational Methods Division, Chinese Nuclear Society.

CUSTOMER FEEDBACK

Our seminars are much appreciated by its participants with high marks in our evaluations. Please see a few of our average scores in the table below (rating from 1/poor - to 5/excellent):

	Average	Number of Responses
How did the level of the information fit your background?	4.0	524
How well did we meet your expectations with the seminar/course?	4.2	313
How were the speakers?	4.4	322
What is your opinion of the ANT International reports?	4.3	914
What is your overall opinion of the seminar/course?	4.4	328



[Customer feedback by Ms. Qifeng Zeng](#)

“The organisation and seminars were great and perfect”

Mr. Bruno Miglierini
Nuclear Fuel Manager Fuel Cycle Strategy
and Services Department

ČEZ

“All the speakers are very open to share their knowledge”

Mr. Javier Fernández López
Head HLW Eng. and R&D Dpt.

ENRESA

“All the seminars were very good”

Mr. Lu Hui
Department of Nuclear Fuel
and Material Research

SNERDI

SEMINAR LOCATION



上海核工程研究设计院有限公司
SHANGHAI NUCLEAR ENGINEERING RESEARCH & DESIGN INSTITUTE CO., LTD.

SNERDI Location 位置信息

Following is the address of **SNERDI** in Chinese. You may print it and show it to the local taxi driver, which could be very useful to get to **SNERDI**.

名称: 上海核工程研究设计院

地址: 上海徐汇区田林路 169 号 (近虹漕路)

Institute Name: Shanghai Nuclear Engineering Research and Design Institute.

Address: No.169 Tianlin road (close to Hongcao road)

People should enter **SNERDI** from the gate of No.169 Tianlin road.

Regarding accommodation, each participant is responsible for booking his/her own room. Here are some recommendations of hotels that are close to the Seminar venue:

1) Hilton Shanghai Hongqiao

No. 1116 Hong Song East Rd, Minhang, 201103 Shanghai, China.

About 45 min taxi and 50 km from Pudong Airport.

About 9 min taxi and 3 km from SNERDI

[Website](#) – Telephone: + 86-21-3323 6666

2) Haiyatt Garden Hotel

No. 99 Qin Jiang Road, Xuhui, 200233 Shanghai, China.

About 51 min taxi and 50 km from Pudong Airport.

About 8 min taxi and 2.1 km from SNERDI

[Website](#) – Telephone: + 86-21-6495 6666

3) Ramada Plaza Shanghai Caohejing

No. 509 Cao Bao Road, Xuhui, 200233 Shanghai, China.

About 52 min taxi and 48 km from Pudong Airport.

About 4 min taxi and 1.4 km from SNERDI

[Website](#) – Telephone: + 86-21-6495 5445

SEMINAR REGISTRATION & CONTACT

In addition to hotel/room reservation, you must also register for the A.N.T. International Academy (ANTIA) Seminars. Attention! Each participant must be registered for the Seminar. Please fill out the online registration form at: [Seminar registration](#).



Please contact us at seminar@antinternational.com for further inquiries and questions.

We are looking forward to meeting you.

With best regards,



Peter Rudling
President
Advanced Nuclear Technology International



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