



WNU Course on



“ The World Nuclear Industry Today ”

Short Course

OVERVIEW AND KEY TOPICS IN THE WORLD NUCLEAR INDUSTRY TODAY

Daejeon, South Korea

5-7 July 2017

Objective

The WNU short course on “The World Nuclear Industry Today” is designed to enhance the knowledge of attendees about the status of nuclear energy in the world today and its likely development. The course also aims to inspire attendees to further their career in this exciting and expanding field. For the participants, the expected outcomes of the WNU short courses are:

- Improved knowledge about nuclear energy in the world today;
- Recognition of how local skills and experience fit into the global nuclear picture;
- Inspiration to develop an expansive vision of where the industry can go in the future;
- Networking with nuclear professionals in their countries and with international experts.

Venue

Korea Atomic Energy Research Institute (111, Daedeok-daero 989beon-gil, Yuseong-gu, Daejeon, Republic of Korea)

Participants

Target participants are professionals from national nuclear research centres, local nuclear industry and potential nuclear supply chain companies, regulators and representatives of governmental bodies concerned with nuclear, environmental and energy matters, university students and academia from science and engineering departments as well as legal, social and economic fields. Depending on the host organization, invitations are extended to nearby countries.

Lecturers

Leading world experts from IAEA, World Nuclear Association, WNU, KAERI will present overviews of a full range of nuclear-related topics (see the draft programme below). Lecturers are encouraged to summarise key points and draw out important issues for further discussion. These will be taken up at coffee breaks, lunches and dinners, where the teaching faculty will be freely available to stimulate discussion and debate.

Language

All of the lecture and discussion is in English.

Registration

- Fee: 500,000 KRW/person or 500 USD
 - Application form by e-mail ([Application form download: https://eng.kntc.re.kr](https://eng.kntc.re.kr))
 - By 30 June, 2017
 - Payment may be made by wire transfer to the following bank account
 - Name and Address of account holder:
Korea Atomic Energy Research Institute
111, Daedeok-daero 989beon-gil, Yuseong-gu, Daejeon, Korea
 - Bank Name and Address:
Woori bank
111, Daedeok-daero 989 beon-gil, Yuseong-gu, Daejeon, Korea
 - Accountant Number:
087-074376-03-001
 - SWIFT CODE:
HVBKCRSEXXX
- Contact JuHyun Kim (+82-42-866-6202)

Contact Point

Course organizer

Hyewon Yoo

Tel: +82-42-868-4546

E-mail: hwyoo@kaeri.re.kr

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Daejeon, South Korea, 5-7 July 2017

PROGRAMME

Time	Topic	Presenter	Organization
06/07/2016 – Wednesday			
09:00-09:15	Opening Ceremony		
09:15-09:45	Introduction to WNU and the course	Serge Gorlin	World Nuclear Association
09:45-10:45	The future of nuclear energy	Serge Gorlin	World Nuclear Association
10:45-11:15	Refreshment Break		
11:15-12:15	Nuclear project: economics	Milton Caplan	MZ Consulting
12:15-14:00	Lunch		
14:00-15:00	Nuclear Project: structuring and financing	Milton Caplan	MZ Consulting
15:00-15:30	Nuclear fuel market	Milton Caplan	MZ Consulting
15:30-16:00	Refreshment Break		
16:00-16:30	Group discussions about questions and “take-aways”		
16:30-17:00	Panel Q&A No. 1 – Nuclear Future		
07/07/2016 – Thursday			
09:00-10:30	Nuclear safety, security and safeguards: the international regime	Abel J. Gonzalez	ARN, Argentina
10:30-11:00	Refreshment Break		
11:00-12:30	Management of radiation risk in normal, accident and post-accident conditions. IAEA Report on Fukushima.	Abel J. Gonzalez	ARN, Argentina
12:30-14:00	Lunch		
14:00-15:00	Waste Management	Jong-Won Choi	KAERI
15:00-15:30	Group discussions about questions and “take-aways”		
15:30-16:00	Refreshment Break		
16:00-17:00	Panel Q&A No. 2 – Safety and Security		
08/07/2016 - Friday			
09:00-10:00	Small and medium size reactors	Sung-Kyun Zee	KAERI
10:00-10:30	Refreshment Break		
10:30-11:30	Korean experience in NPP development and supply chain challenges	Insu Yang	KEPCO E&C
11:30-12:00	Nuclear transport	Serge Gorlin	World Nuclear Association
12:00-14:00	Lunch		
14:00-14:30	Country case studies	Milton Caplan	MZ Consulting
14:30-15:00	Effective communication with the public	Serge Gorlin	World Nuclear Association
15:00-15:30	Refreshment Break		
15:30-16:00	Group discussions about questions and “take-aways”		
16:00-16:30	Panel Q&A No. 3 – Nuclear Technology		
16:30-17:00	Certificate and closing		

Lecturers Information

	<p style="text-align: center;">Serge Gorlin</p> <p>Director of Industry, Cooperation at the World Nuclear Association, Representing WNU, Author of "Nuclear English" book</p>		<p style="text-align: center;">Milton Caplan</p> <p>President MZ Consulting Inc., Chair of the World Nuclear Association Economics Working Group</p>
	<p style="text-align: center;">Abel J. Gonzalez</p> <p>Representative at the UNSCEAR. Member of the IAEA-CSS, Senior Advisor to the Nuclear Regulatory Authority of Argentina</p>		<p style="text-align: center;">Jong-Won Choi</p> <p>Director of Radioactive waste Management Centre at Korea Atomic Energy Research Institute</p>
	<p style="text-align: center;">Sung-Kyun Zee</p> <p>Distinguished Research Fellow, SMART Development Korea Atomic Energy Research Institute</p>		<p style="text-align: center;">Insu Yang</p> <p>Senior Engineer, Department of Plant Design & Engineering at KEPCO Engineering & Construction Company</p>

Sergio Gorlin

Serge Gorlin is Head of Industry Cooperation at the World Nuclear Association, the international trade association for nuclear energy based in London, England. His career in nuclear began as a translator and interpreter at British Nuclear Fuels (1996 – 2000). After a period as an independent consultant, he joined the World Nuclear Association as a Writer and Analyst in 2005. He assumed his current role in 2013. Within World Nuclear Association, Serge is responsible for the World Nuclear Association's Working Groups - forums for global industry cooperation on nuclear issues – and takes a leading role on trade and transport issues. Outside World Nuclear Association, he is a member of the IAEA's Transport Safety Committee (TRANSSC), as well as a former Chairman of the International Steering Committee on Denial of Shipments, convened by the IAEA between 2006 and 2013. In 2005, Serge published a textbook for learners of English working in the nuclear field entitled Nuclear English (WNU Press). It remains widely used at companies, research institutes and universities worldwide. Serge has a bachelor's degree in Russian Studies from the University of Sheffield and a Master's Degree in Translation from the University of Kent.

Abel González

Abel J. González has worked in radiation protection for the last four decades, most recently as Director of Radiation, Transport and Waste Safety, the senior radiation safety official of the International Atomic Energy Agency (IAEA). Previously, in his native Argentina, he was a Director of the Argentine National Atomic Energy Commission and President of the Argentine Nuclear Power Plant Corporation. He is a founding member of the Argentine Radiation Protection Society.

Mr. González was a member of International Commission on Radiological Protection (ICRP) Committee 4 from 1978 to 2000 and is currently an ICRP commissioner, member of the ICRP Main Commission. He is one of the longest serving participants of the United Nations Committee on the Effects of Atomic Radiation (UNSCEAR). He is also member of the IAEA Commission on Safety Standards.

He has been honoured with a number of awards, notably: the IAEA Distinguished Service Award in recognition of his work for the International Chernobyl Project; the Morgan Award of the Health Physics Society (twice); the Lauriston S. Taylor Award of the National Council on Radiation Protection and Measurements; and, most recently, the Sievert Award for outstanding contributions to the field of radiation protection. Mr. González graduated in 1964 from the University of Buenos Aires (UBA) with the highest diploma in engineering. In 1962, while still an undergraduate, he began his professional career as a staff member of the Argentine National Atomic Energy Commission (CNEA) specializing in the fields of radiation protection, safety of radioactive waste management and of radioactive materials transport, and related aspects of nuclear safety.

Milton Caplan

Milton Caplan is President of MZ Consulting Inc. He has more than 25 years senior experience in the nuclear industry primarily in the areas of project development, strategy formulation, business model development, economic assessment, project financing and contract negotiation. He has a very keen interest in issues related to the overall competitiveness of projects, and how deals will have to be structured to manage the risks.

Jong-Won Choi

Dr. Choi is director of Radwaste Management Centre at Korea Atomic Energy Research Institute (KAERI). He involved in radioactive waste disposal since joining with KAERI in 1986. He joined Korea Atomic Energy Research Institute (KAERI) as a principle researcher and He has been an adjunct professor at Kyung Hee University since 1996.

He received bachelor's, Master's and Ph.D's degree in Nuclear Engineering from Hanyang University (1984, 1986, 1992).

Sung-Kyun Zee

Dr. Zee received a bachelor's degree in Material Science and Engineering from Seoul National University and Master's in Nuclear Engineering from The Ohio State University (1975 and 1979), and Ph.D's degree

in Nuclear Engineering from North Carolina State University in USA (1987). Dr. Zee's professional career started at Korea Electric Power Corporation (KEPCO) after the graduation of Seoul National University in 1975. During 7 years with KEPCO from 1975 to 1981, he involved in nuclear power planning, construction and operation. After he earned his Ph.D degree in 1987, he joined Korea Atomic Energy Research Institute (KAERI) as a senior researcher. Since joining with KAERI, Dr. Zee has involved in and led various R&D projects; (1) Core Design/Analysis Team Leader (1987~1991) and Manager (1992~2002) for all Korean NPP fleet and SMART Core (2) Director of Reactor Engineering Division and Chief Engineer of SMART NSSS Design (2002~2006), (4) Vice President and Project Director of SMART Development (2006~2007). In late 2007, he was assigned as a principal research fellow and technical advisor to Advanced Reactor Development Institution of KAERI. Currently, Dr. Zee is a distinguished research fellow of SMART Development. From 1987 to present, Dr. Zee has continuously participated in knowledge transfer through education/training/lecture program. Dr. Zee involved in Core/Fuel Program of KEPCO International Nuclear Graduate School as an Adjunct Professor (2011~2014) and Education Advisory Committee Member (2015~Present). Dr. Zee has also presented series of graduate lecture course on nuclear fuel management and core analysis methodology to NE Department of North Carolina State University as a visiting scientist and adjunct professor (2012~2014). Dr. Zee's specialties are core design/analysis methodology and numerical reactor analysis.

Insu Yang

In-Su YANG is a Senior Engineer of the Department of Plant Design & Engineering at KEPCO E&C. In 1996, he began his professional career as a staff of KOPEC (former name of KEPCO E&C), which is performing design and engineering for the Nuclear Power Plants for not only Nuclear Steam Supply System (NSSS) but also Balance of Plant (BOP) areas. He has more than 20 years' experience in the fields of Plant Design & Engineering, Pre-Project Activities, and Engineering IT. Prior to taking current position, he had been responsible for Project Development, Bidding, Negotiation and Contract of new nuclear projects in Overseas Nuclear Business Development Team.

Dr. YANG participated in several International Joint Studies on Feasibility of Nuclear Energy Program for Indonesia, Vietnam, Turkey, etc. as a member of Korean Consulting Team, and particularly took a leading role on the Consulting Services for Site Selection and Evaluation for New NPPs and the Preliminary Feasibility Study of Nuclear Power Program in Malaysia.

He received a Ph. D. in Mechanical Engineering from the Kyunghee University at Seoul, and a M. S. degree and a B. S. degree in Mechanical Engineering from the same university. He is also registered in the Project Management Professional (PMP) in U.S.A.

Venue Information

International Training & Education Centre(INTEC), KAERI

Address: 989-111 Daedeok-daero, Yuseong-gu, Daejeon, Republic of Korea

Tel: 042) 868-4546/866-6202

- ▶ INTEC is located in front of the KAERI main gate

