



Nov 15, 2023

PROPOSAL of TV LECTURE PROGRAM in FY 2023

Fundamental Nuclear Education Program
by Japanese University Network
for Global Nuclear Human Resource Development (JUNET-GNHRD)



Proposal of TV Lecture program in FY2023

Fundamental Nuclear Education Program by Japanese University Network for Global Nuclear Human Resource Development (JUNET-GNHRD) will propose to deliver following four lectures in FY2023 through telecommunication network (Zoom) for the further development of expertise in the nuclear field. Please join the lectures.

For joining the lecture, please fill up the following application form:

<https://docs.google.com/forms/d/1vYQXPBDSBDpp2p7OPoIYFfz4vu0ORAL2RtmNj3wVJ3A/edit>

JUNET-GNHRD was established in December 2010 under a cooperation of 18 universities for efficient and effective sharing of their educational resources and capabilities with close collaboration of the industry and relevant governmental agencies. The current member universities of the JUNET-GNHRD are Hokkaido University, Hachinohe Institute of Technology, Ibaraki University, Nagaoka University of Technology, Tokai University, Waseda University, University of Yamanashi, Kanazawa University, University of Fukui, Nagoya University, Kyoto University, Osaka University, Kindai University, Okayama University, Osaka Sangyo University, Kyushu University, Tokyo City University and Tokyo Institute of Technology.

| Program |

LECTURE 1

Title: **Current and next-generation nuclear system and Safety engineering**

Date: **October 27, 2023 (Friday)**

Lecturer: **Prof. Munemichi Kawaguchi (Hokkaido University)**



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LECTURE 2

Title: Floating Nuclear Power Plant can resolve Global Environmental Issues

Date: November 17, 2023 (Friday)

Lecturer: Mr. Takafumi Anegawa (Tokyo Electric Power Company Holdings)

LECTURE 3

Title: Material evaluation for accelerator spallation neutron target

Date: December 19, 2023 (Tuesday)

Lecturer: Dr. Masatoshi Futakawa (J-PARC Center, JAEA)

LECTURE 4

Title: Fundamentals of High Temperature Gas-cooled Reactor

Date: January 12, 2024 (Friday)

Lecturer: Prof. Nozomu Fujimoto (Kyushu University)

| Time schedule for each country |

	Thailand Time	Malaysian Time	Japan Time
Opening Remarks :	9:00 - 9:05	10:00 - 10:05	11:00 - 11:05
Lecture :	9:05 - 10:30	10:05 - 11:30	11:05 - 12:30
Q&A Session :	10:30 - 11:00	11:30 - 12:00	12:30 - 13:00





| Curriculum Vitae of Lectures |

Prof. Munemichi Kawaguchi



Associate professor, Laboratory of Nuclear System and Safety Engineering, Hokkaido University

Associate Professor Kawaguchi was involved in the research and development of the Fast Reactor, especially the research related to the liquid sodium coolant at Japan Atomic Energy Agency since 2007 after graduate school of Advanced Science of Matter at Hiroshima University. He also experienced developing a decommissioning plan for the Japanese fast breeder reactor, Monju from 2016 to 2021. Since 2022, he has conducted safety research on the fast reactor at Hokkaido University and engaged in education for nuclear energy and safety as an associate professor. He also had been a visiting researcher of Japan Atomic Energy Agency and University of Fukui.

Mr. Takafumi Anegawa



Fellow, Tokyo Electric Power Company Holdings, Inc.

Mr. Takafumi Anegawa graduated University of Tokyo getting master degree of nuclear engineering and joined TEPCO in 1983.

His first assignment was core management of nuclear power plant at Fukushima Daiichi Nuclear Power Station.

He was dispatched for EPRI program to develop Simplified BWR and stayed in GE Nuclear Energy during 1991 to 1993 as a loaned engineer.

After coming back to TEPCO, he contributed for licensing work to increase burn up of ABWR initial loaded core and introduction of Mixed Oxide Fuel to Kashiwazaki Kariwa Unit 3.

Since 2002 to 2011, Mr. Anegawa changed his job from nuclear to Electric Vehicle. He jointly developed new EV which can be recharged by high power DC charger with Subaru and Mitsubishi Motors. In March 2010, he founded CHAdeMO association with hundreds of members in the world.

After TEPCO's Fukushima accident in 2011, Mr. Anegawa concentrated in the recovery efforts for 7 years as the Chief Nuclear Officer / Managing Executive Officer of TEPCO. During this



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period, Mr. Anegawa lead an internal task force to investigate root cause of the accident and made a report of lessons learned from the accident.

After he retired from CNO, he became the President of Research Institute of TEPCO until March 2021 and lead all of its R&D, including renewable energy, nuclear restoration and electrification of transportation.

Dr. Masatoshi Futakawa



Vice Director of J-PARC Center JAEA

Masatoshi Futakawa was earned his PhD in 1991 from Tohoku University through research work on structural integrity evaluation of high temperature components in nuclear reactors, carried out at JAERI after he graduated from Tokyo Institute of Technology in 1981.

As an invited researcher, he studied impact failure of ductile materials at UKAEA in UK from 1993-94, and fracture mechanics of ceramics at FJK in Germany from 1995-96. Afterwards, he continued working in R&D on structural materials relating to fusion reactors and high power neutron sources at JAEA, and became a Deputy Head of the Materials and Life Science Division at the J-PARC Center in 2012, and was Deputy Director of the J-PARC Center from 2015-21. Now, a special researcher in JAEA. He has been a Visiting Professor at Ibaraki University since 2004.

Prof. Nozomu Fujimoto



Dr. Nozomu Fujimoto is a professor of the Department of Applied Quantum Physics and Nuclear Engineering, Faculty of Engineering, Kyushu University.

He started his professional career as a researcher at Japan Atomic Energy Research Institute (now Japan Atomic Energy Agency) in the field of development of High Temperature Gas-cooled reactors. He engaged design, licensing, construction, startup experiments and operation of the High Temperature Engineering Test Reactor (HTTR) as a specialist of reactor physics and reactor engineering. After 28 years experiences at the HTTR, he moved to Kyushu University. His present interests are nuclear characteristics of graphite moderated system and reactor engineering of HTGRs.



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| Contact |

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QUESTIONNAIRE for TV LECTURES BY JUNET-GNHRD

Please fill up the following questionnaire or put your comments to the form of <https://docs.google.com/forms/d/18nFy0HvCsofeYLTGcNRbJrzN511QWOjxFuUNkFTNZ6c/edit> or write down and send the following sheets.

Name: _____

University: _____

Faculty, School: _____

Date: _____

Please check appropriate box on level, usefulness, interest and expectation.

Level	Usefulness	Interest	Expect more lectures
<input type="checkbox"/> Too advanced	<input type="checkbox"/> Much useful	<input type="checkbox"/> Much interesting	<input type="checkbox"/> Strongly expect
<input type="checkbox"/> Advanced	<input type="checkbox"/> Fairly useful	<input type="checkbox"/> Fairly interesting	<input type="checkbox"/> A little expect
<input type="checkbox"/> Just right	<input type="checkbox"/> Useful	<input type="checkbox"/> Interesting	<input type="checkbox"/> Different Topics
<input type="checkbox"/> Elementary	<input type="checkbox"/> A little useful	<input type="checkbox"/> A little interesting	()

Thank you very much for your cooperation!