

Aug 3, 2021

# PROPOSAL of TV LECTURE PROGRAM in FY 2021

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



## Proposal of TV Lecture program in FY2021

**The Japanese University Network for Global Nuclear Human Resource Development (JUNET-GNHRD) will propose to deliver following four lectures in FY2021 through telecommunication network (Zoom) for the further development of expertise in the nuclear field. Please join the lectures.**

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:* **Reduction of environmental load in final nuclear waste disposal**

*Date:* **November 12, 2021 (Friday)**

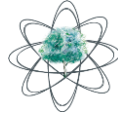
*Lecturer:* **Prof. Hidekazu Asano** (Tokyo Institute of Technology)

#### LECTURE 2

*Title:* **Nuclear Fuel Design and Fabrication**

*Date:* **November 16, 2021 (Tuesday)**

*Lecturer:* **Prof. Akira Nishimura** (Tokyo Institute of Technology)



Aug 3, 2021

### LECTURE 3

**Title:** Basic Technology of Superconducting Coil for Fusion Reactor

**Date:** January 7, 2022 (Friday)

**Lecturer:** **Dr. Kazuya Hamada** (Group Leader, Cryogenic System Technology Group and JT-60 Superconducting Magnet System Group, Department of Tokamak System Technology, Naka Fusion Institute, Fusion Energy Directorate National Institutes for Quantum and Radiological Science and Technology)

### LECTURE 4

**Title:** Material Evaluation for Accelerator Neutron Target

**Date:** February 25, 2022 (Friday)

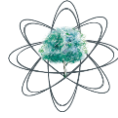
**Lecturer:** **Dr. Masatoshi Futakawa** (Vice Director of J-PARC Center, Japan Atomic Energy Agency (JAEA))

### | 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

\*Question will be asked by chat in Zoom or e-mail, answer will be orally responded in the session.



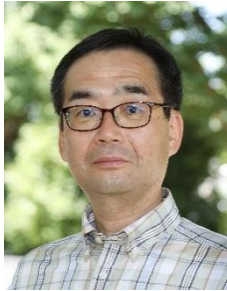


Aug 3, 2021

## | Curriculum Vitae of Lectures |

### Visiting Prof. Hidekazu ASANO

---



Visiting Professor,  
Laboratory for Zero-Carbon Energy, Tokyo Institute of Technology  
2-12-1, Ookayama, Meguro-ku, Tokyo, 152-8550, JAPAN

He was graduated from Tokyo Institute of Technology (Tokyo Tech), Department of Inorganic Materials Engineering in 1980 and received Master-degree of Nuclear Engineering in 1982. After then, he worked for Ishikawajima-Harima Heavy Industries Co. Ltd (now IHI Corporation) from 1982 to 2002 mainly engaged in R&D programs for vitrification of high-level radioactive waste and geological disposal of HLW and TRU wastes. He moved to Radioactive Waste Management Center (now Radioactive Waste Management Funding and Research Center) in 2002 and received Ph.D. degree in 2006 from Tokyo Tech. In 2007, he was assigned as a visiting professor for Tokyo Tech. His current research field is cross-sectoral study on nuclear energy system for less-impacted radioactive waste management.

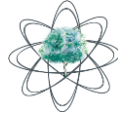
### Prof. Akira Nishimura

---



Professor,  
Laboratory for Zero-Carbon Energy, Tokyo Institute of Technology  
2-12-1, Ookayama, Meguro-ku, Tokyo, 152-8550, JAPAN

Professor Nishimura was involved in the engineering fields of Nuclear Reactor Core Development in Hitachi, Ltd. since 1971 after graduated physics faculty of the Tokyo University, and fuel fabrication especially for BWR fuel in Global Nuclear Fuel Ltd., about 10 years after 2000. He also experienced with a Manager of Maintenance of Operating Nuclear Power Plants in Hitachi during 1990 to 1999. Since 2011, he joined Tokyo Institute of Technology and engaged nuclear education as a professor for young generations of Japanese and foreign universities with the Japanese University Network for Global Nuclear Human Resource Development (JUNET-GNHRD). He also had been a member of Standardization Committee of Japan Nuclear Society and other many committees.



Aug 3, 2021

## Dr. Kazuya Hamada

---



Hamada Kazuya, Senior principal researcher, Department of Tokamak System Technology, Naka Fusion Institute, National Institutes for Quantum and Radiological Science and Technology (QST)  
801-1, Muko-yama, Naka-shi, Ibaraki, 311-0193 JAPAN

Hamada Kazuya received a master degree from the Kobe University of Mercantile Marine in 1992. From 1992, he worked as a researcher at Japan Atomic Energy Research Institute. He received his Ph.D. degree from Kobe University in 2008. From 2012 to 2019, he worked as a magnet engineer at ITER international organization in France. He is now a group leader of cryogenic technology and JT-60 magnet system at QST Naka fusion institute. He is assigned as a visiting professor of Ibaraki University since 2020. His specialties are superconducting coil system, superconducting conductor, cryogenic systems, and cryogenic structural materials for fusion machine.

## 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 Industrial 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.

## | Contact |

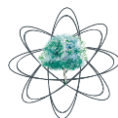
2-12-1-N1-15, Ookayama, Meguro-ku, Tokyo 152-8550, Japan

Tokyo Institute of Technology, Laboratory for Zero-Carbon Energy,

**Japanese University Network for Global Nuclear Human Resource Development (JUNET-GNHRD)**

Phone : +813-5734-2188      E-mail : g-dojo@zc.iir.titech.ac.jp

Website: [http://www.zc.iir.titech.ac.jp/d-atom/English/event\\_eng.html](http://www.zc.iir.titech.ac.jp/d-atom/English/event_eng.html)



Aug 3, 2021

## QUESTIONNAIRE for TV LECTURES BY JUNET-GNHRD

Please fill up the following questionnaire.

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!**