別紙2 セミナープログラム

17th Summer Seminar on Fusion Reactor Technology

Organized by Fusion Engineering Division, Atomic Energy Society of Japan and Atomic Beam Application and Fusion Technology Committee, Korean Nuclear Society

Supported by The Japan Society of Plasma Science and Nuclear Fusion Research,
Division of Plasma Physics, Korean Physical Society,
Korea Accelerator and Plasma Research Association
Japan Institute of Metals and
Nuclear Material Division, Atomic Energy Society of Japan

July 30th - August 1st, 2001

Room 501, Building 301, College of Engineering, Seoul National University, Seoul, Korea

Theme 'Scientific interaction between Korean and Japanese young fusion researchers'

Recently the great progress of fusion research has been made in the world, and the scientific and technological basis are being constructed for next step toward development of nuclear fusion reactor as a future energy source. It is recognized that the education of students and young scientists of fusion engineering and science is quite important for future promotion of fusion research. Furthermore, the recent internationalization of fusion research demands for both the scientific and social interaction among young generation of researchers in the world. In this summer, the 17th summer seminar on fusion reactor technology will be held at Seoul National University, Korea, where the leading scientists of Korea and Japan will give lectures on advanced fusion research to the Korean and Japanese young scientists and students to promote fusion science and engineering in both the countries.

Program

July 30th (Monday)

8:15 Registration (Room 501, Bldg 301, College of Engineering)

Opening Chairman: A. Kimura (Kyoto Univ.)

9:00 Opening Remarks Akira Kohyama (Kyoto Univ.)

Sang Hee Hong (Seoul National Univ.)

Welcome Address Gyung-Su Lee (KBSI)

Session 1:Invite	d Lectures	Chairman: K. Yoshikawa (Kyoto Univ.)
9:45-10:15	Strategy of Fusion Resear	
10:15-10:45	An Effort for Systematiza	Gyung-Su Lee (KBSI) tion of Fusion Nuclear Technology Kenzo Miya (Keio University)
10:45-11:00	(Coffee Break)	Tiongo Tinyu (Tiono emiversity)
Session 2:Fusion Fundamentals Chairman: M. Seki (JAERI)		
11:00-11:30	Introduction to Physics of	Magnetic Fusion
	•	Masahiro Wakatani (Kyoto Univ.)
11:30-12:00	Integrated Plasma Contro	
	•	Yong-Seok Hwang (Seoul National Univ.)
12:00-12:30	Overview and Importance	of Fusion Engineering
	_	Satoru Tanaka (Univ. of Tokyo)
12:30-14:00	(Lunch)	
Session 3:Frontiers of Fusion Research Chairman: M. Nishikawa (Osaka Univ.)		
Session 3:Fronti	iers of Fusion Research	Chairman: M. Nishikawa (Osaka Univ.)
Session 3:Front 14:00-14:30	iers of Fusion Research Overview of ITER Projec	
	Overview of ITER Projec	t
14:00-14:30	Overview of ITER Projec	t Masahiro Seki (JAERI)
14:00-14:30	Overview of ITER Projec	t Masahiro Seki (JAERI) okamak Advanced Research Project
14:00-14:30 14:30-15:00	Overview of ITER Projec Korea Superconducting T	t Masahiro Seki (JAERI) okamak Advanced Research Project
14:00-14:30 14:30-15:00	Overview of ITER Project Korea Superconducting T (Coffee Break)	t Masahiro Seki (JAERI) okamak Advanced Research Project Myeon Kwon (KBSI)
14:00-14:30 14:30-15:00 15:00-15:20	Overview of ITER Project Korea Superconducting T (Coffee Break)	Masahiro Seki (JAERI) okamak Advanced Research Project Myeon Kwon (KBSI) Chairman: T. Hino (Hokkaido Univ.)
14:00-14:30 14:30-15:00 15:00-15:20	Overview of ITER Project Korea Superconducting T (Coffee Break) Present Status of Inertial I	Masahiro Seki (JAERI) okamak Advanced Research Project Myeon Kwon (KBSI) Chairman: T. Hino (Hokkaido Univ.) Fusion Energy (IFE) Research
14:00-14:30 14:30-15:00 15:00-15:20 15:20-15:50	Overview of ITER Project Korea Superconducting T (Coffee Break) Present Status of Inertial I	Masahiro Seki (JAERI) okamak Advanced Research Project Myeon Kwon (KBSI) Chairman: T. Hino (Hokkaido Univ.) Fusion Energy (IFE) Research Kunioki Mima (Osaka Univ.) ect - Superconducting Large Helical Device -

July 31st (Tuesday)

Session 4:Current Status and Future Plans of Fusion Technology R&D

	Chairman: S. Tanaka (Univ. of Tokyo)
9:00-9:30	Plasma Material Interactions in Fusion Devices
	Tomoaki Hino (Hokkaido Univ.)
9:30-10:00	Heat Capture and Removal in High Heat and Particle Loading
	Masahiro Nishikawa (Osaka Univ.)
10:00-10:30	Tritium in Fusion Reactor
	Masabumi Nishikawa (Kyushu Univ.)
10:30-10:50	(Coffee Break)
	Chairman: N. Noda (NIFS)
10:50-11:20	Materials System Integration for Fusion Reactors
	Katsunori Abe (Tohoku Univ.)

Advanced Blanket Concepts and Their R&D Issues Takayuki Terai (Univ. of Tokyo) Current Status of Inertial Electrostatic Confinement Fusion Neutron/Proton Source Study Kiyoshi Yoshikawa (Kyoto Univ.)		
(Lunch)		
Session 5:Frontier of Nuclear Materials R&D		
Chairmen: M. Nishikawa (Kyushu Univ.)		
Development of Nuclear Structural Materials		
Hu-Chul Lee (Seoul National Univ.)		
Resent Irradiation Studies in Korea		
Key-Soon Lee (KAERI)		
Reduced Activation Structural Materials		
Akihiko Kimura (Kyoto University)		
(Coffee Break)		
Chairman: K. Abe (Tohoku University)		
14MeV Intense Neutron Source		
Hideki Matsui (Tohoku Univ.)		
Application of HVEM to Materials Science Considering Damage Effects		
Heishichiro Takahashi (Hokkaido Univ.)		
Multiple Beam Charged Particle Irradiation Methods for Radiation		
Damage Studies of Fusion Materials		
Akira Kohyama (Kyoto Univ.)		
Chairman: H. Takahashi (Hokkaido Univ.)		
Masahiro Seki (JAERI)		
Han-Ki Yoon (Dong-Eui Univ.)		

Night Session for Students

18:00- outside of the Professors' Hall

August 1st (Wednesday)

7:30-18:30 Optional tour to Korea Basic Science Institute (10:00-12:00),

Korea Advanced Institute of Science and Technology (13:00-14:30) and Korea Atomic Energy Research Institute (15:00-16:30)

Akihiko Kimura (Kyoto Univ.)