

Venue of the lectures and presentation:
Memorial Hall of Materials Research, Osaka University

July 11, 2011

Schedule of the Maintenance Science Summer School 2011 in Osaka

	9:00-12:00	13:00-15:00	15:30-17:30	18:30-	Remarks
7/24 (Sun)				Welcome Reception Venue: Hotel Mare Minamisenri, Room "PORTO" at lobby floor	Start of Summer School
7/25 (Mon)	9:00- 9:10 Opening Ceremony (M. MOCHIZUKI, Osaka Univ.) Welcome Speech, Orientation 9:10- 9:40 Self Introduction (All) 9:40-11:00 Lecture 1: Design & Construction (1) BWR Design & Safety Aspects (W. SAGAWA, Hitachi-GE) (2) PWR Design & Safety Aspects (J. MIYAGUCHI, MHI) 11:10-12:30 Lecture 2 : Maintenance (1) General View of Maintenance Activities in Japanese NPP (H. MIYANO, JSM) (2) Maintenance Activities in Japanese NPP Outage (Y. NISHIKAWA, KEPCO)	13:00-17:30 Historical Visit / Japan Culture		Free Activity	
7/26 (Tue)	9:00- 9:50 Lecture 3 : Degradation Evaluation Technology (1) Introduction to Degradation Evaluation Methods: IASCC, IGSCC, Fatigue, FAC, etc. (T. NAKAMURA, Osaka Univ.) (2) Specific Examples of R&D on Degradation Evaluation (Y. WATANABE, Tohoku Univ.) 10:00-11:10 Lecture 4: Inspection & Monitoring Technology (1) Introduction to Inspection and Monitoring (F. KOJIMA, Kobe Univ.) (2) Specific Examples of Inspection and Monitoring by ECT (T. UCHIMOTO, Tohoku Univ.) 11:20-12:30 Lecture 5: Corrective Measure Technology (1) Introduction to Corrective Measures: Repair, Replacement & Modification (S. HIRANO, KEPCO) (2) Welding for Maintenance (K. OKIMURA, MHI)	13:30- 15:00 Student Presentation (I) Outline of University Affiliation Outline of Student's Own Research Discussion	15:30-17:30 Student Presentation (II) Outline of University Affiliation Outline of Student's Own Research Discussion	Barbecue Party	
7/27 (Wed)	Visit to Tsuruga and Monju NPPs			Free Activity	
7/28 (Thu)	9:00-10:20 Lecture 6 : Mathematics for Maintenance Science (1) Introduction to Reliability Engineering: FTA, FMEA, PRA, Bayesian Statistics etc. (A. YAMAGUCHI, Osaka Univ.) (2) Examples of the Application (T. KURAMOTO, NEL) 10:40-12:00 Special Lecture: Fukushima Daiichi Accident Events, Damages and Consideration from the viewpoint of Nuclear Safety (A. YAMAGUCHI, Osaka Univ.)	13:00- 15:00 Laboratory Tour	15:30-17:30 Students' Presentation (III) Outline of University Affiliation Outline of Student's Own Research Discussion	Banquet Venue: Restaurant "La Siena" in Suita Campus, Osaka University	
7/29 (Fri)	9:00-10:20 Lecture 7 : Maintenance Science & Technology (1) Introduction to Maintenance Science & Technology (T. TAKAGI, Tohoku Univ.) (2) Example of Maintenance Scientific Approach (T. AOKI, JSM) 10:40-12:00 Preparation of Students' Presentation	13:00-17:30 Students' Presentation, Wrap-up and Closing (M. MOCHIZUKI, Osaka Univ.)			End of Summer School
7/30 (Sat)					