

Short Course on Quantitative NDE for Life Extension in Power Plants

**University of Rhode Island
Ballentine Hall
Kingston, Rhode Island, July 25-26, 2009**

**Sponsored by
The World Federation of NDE Centers and the Japan Society of Maintenology**

Program Directors: K. Miya, R.B. Thompson, L.W. Schmerr

SATURDAY, JULY 25th

I. Introduction

9:00 a.m. *Opening Remarks*, K. Miya, R.B. Thompson, L.W. Schmerr

II. World Views on Life Extension

9:10 *Current Status of Research on Nondestructive Inspection Techniques for Nuclear Power Plants in Japan*, Kazunobu Sakamoto, Japan Nuclear Energy Safety Organization

9:50 *Status of NDE for Life Extension of Korean Nuclear Power Plants*, Yong-Moo Cheong, Korea Atomic Energy Research Institute

10:30 Break

10:45 *NRC Research to Support Regulatory Decisions Related to Subsequent License Renewal Periods*, Gene Carpenter, US Nuclear Regulatory Commission

III. Technical Responses to Life Extension Needs

11:25 *Action Taken for Technical Improvement of Ultrasonic Testing by Japanese BWR Owners' Group*, Yasushi Takizawa, Tokyo Electric Power Company

12:05 p.m. Lunch

2:00 *NDE Response to Plant Aging Issues*, Greg Selby, Electric Power Research Institute

2:40 *Progress and Development in the In-Service Inspection Technology for Monju FBR and Future SFR*, Mihalache Ovidiu Marius, Japan Atomic Energy Agency

3:20 Adjourn

SUNDAY, JULY 26th

IV. Industrial Approaches to Life Extension

9:00 a.m. *Inspection Technology for Nuclear Power Plants*, Dr. Masahiro Tooma, Hitachi, Ltd.

9:40 *Inspection Options for Plant Life Extension*, Warren Junker, Westinghouse

10:20 Break

10:35 *Strategy and Recent R&D Activities on NDE Technique for Power Plants in Toshiba*, Yoshinori Satoh, Toshiba Corporation

11:15 *The latest MHI's Inspection Technology for PWR Nuclear Power Plants in Japan*, Takayoshi Tsuruta, Mitsubishi Heavy Industries, Ltd.

11:55 Lunch

V. New Technologies

2:00 p.m. *Verification of Inspection Performance of Phased Arrays under Different Inspection Parameters by an Ultrasonic Visualization Technique*, Takashi Furukawa, Japan Power Engineering and Inspection Corporation

2:40 *Monitoring for Management of Materials Degradation*, Steve Doctor, Pacific Northwest Laboratories

3:20 *Workshop Summary and Feedback*, K. Miya, R.B. Thompson, L.W. Schmerr

3:30 Adjourn