To regain the beautiful moments...

Fukushima Research Conference on "Corrosion Prediction and Mitigation for Key Components of Fukushima Daiichi NPP"

November 27-29, 2017
Fukushima Prefecture, Japan

(Collaborative Laboratories for Advanced Decommissioning Science, Japan Atomic Energy Agency)

(Center for Fundamental Research on Nuclear Decommissioning, Tohoku University)
Scope:
There are number of important components such as primary containment vessel, piping system for fuel cooling, pedestal of reactor pressure vessel, supporting structure of suppression chamber, and fuel cladding, to maintain boundary of radioactive materials or to support key structures of NPP. One of the most critical concern about ageing degradation of those important components of Fukushima Daiichi NPP is “corrosion” of metals and alloys. The conference focuses on prediction and mitigation of corrosion in those key components to maintain integrity of the components for a prolonged period of time needed for decommissioning of Fukushima Daiichi NPP.

The key topics are;
✧ Long-term prediction of uniform corrosion of carbon steels,
✧ Passivation and localized corrosion of carbon steels in borate-containing solution,
✧ Critical condition for re-passivation of crevice corrosion and stress corrosion cracking of stainless steels and other corrosion resistant alloys,
✧ Effect of radiolysis on corrosion,
✧ Microbiologically induced corrosion,
➢ Corrosion issues and measures for water clean-up systems (ALPS),
➢ Corrosion management of piping systems,
➢ Corrosion management of primary containment vessels,
➢ Corrosion deterioration of reinforcing steel bars in damaged RC structures, and others.
✧ : Topics more general and fundamental
➢ : Topics more specific to Fukushima Daiichi components

Session:
General Corrosion of Carbon Steels
Localized Corrosion of Corrosion Resistant Alloys
Effect of Radiolysis on Corrosion
Poster Session
Other Important Aspects of Corrosion
Wrap-up

Schedule:
27-29 November, 2017
Two-day conference on 27-28 and Fukushima Daiichi site visit on 29.
**Chairperson:**
Dr. Damien Feron, CEA Director of Research, INSTN Professor, President of European Federation of Corrosion (2017-18)

**Vice-chairs:**
Prof. Yutaka Watanabe, Tohoku University
Prof. Masahiro Yamamoto, JAEA & Tohoku University

**Secretariat:**
Dr. Takafumi Motooka, CLADS, JAEA

**Keynote and invited lecturers:**
*From abroad*
Dr. Damien Feron, CEA
Prof. Philippe Marcus, Ecole Nationale Supérieure de Chimie de Paris
Prof. Bernard Normand, INSA-Lyon
Dr. Frazer King, Consultant
Dr. Valérie l'Hostis, CEA
Dr. Narasi Sridhar, The Ohio State University
Dr. Raul Rebak, GE Global Research
Prof. J. Clara Wren, Western University

*From Japan*
Mr. Yuichi Fukaya, TEPCO Holdings
TBA

**Venue:**
The main venue is Tomioka Town Art & Media Center “Manabi-no-mori”, Tomioka-cho, Fukushima prefecture, on the assumption that accommodation and transportation problems were solved. The evening session on November 27 will be held at Iwaki Washington Hotel.

**Financial support:**
CLADS, JAEA

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