

To regain the beautiful moments...



(富岡町役場提供)

**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.

Nov. 27 (Mon)							
Opening Session	Plenary Session	Lunch Break	Session 1	Break	Session 2	Break	Evening Session
Nov. 28 (Tue)							
Session 3	Poster Session + Lunch	Break	Session 4	Break	Wrap-up Session		
Nov. 29 (Wed)							
Fukushima Daiichi site visit							

**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

**Contact:**

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