



# 1ST INTERNATIONAL CONFERENCE OF MATERIALS, CHEMISTRY & FITNESS-FOR- SERVICE SOLUTIONS FOR NUCLEAR SYSTEMS

## 2019 MCFD Conference | Call for Papers

The focus for the MCFD-2019 Conference is on the approaches used to demonstrate the continued Fitness-for-Service (FFS) of components in Nuclear Power Plants. Ever increasing demands for FFS demonstrations often require innovative and multidisciplinary solutions that involve elements of engineering from: materials, chemistry, stress analysis, thermal-hydraulic analysis, probabilistic assessment methods, examination and inspection approaches, and operational strategies. This is the case for most major nuclear plant systems and components, regardless of reactor type.

Objectives of this conference are:

- to provide a forum for exchanging views, ideas, and information relating to innovative FFS demonstrations, and
- to share technical engineering in support of life extension and refurbishment of nuclear plant major components.

The conference will be of interest to representatives from various sectors of the Nuclear Industry including: material and equipment vendors, technical and engineering service providers, utility technical staff, regulators, designers, researchers, students, and academia.

Student participation is encouraged, in particular by means of a student poster session. The top three student submissions will be selected to present at the conference.

### SUBMISSION GUIDELINES

Abstracts should be a maximum of 250 words and are to be submitted through the conference website. It will be a requirement for all presenting authors to provide a full presentation for the conference proceedings. Students submitting poster abstracts are encouraged to provide a summary of the work suitable for inclusion in the proceedings, but this is not mandatory. As well as the conference proceedings, authors are encouraged to prepare full papers for submission to a special issue of a Nuclear Journal for publication.

**Abstract Submission Deadline: February 28, 2019**

### TIMELINE:

**Abstract Submission Deadline: February 28, 2019**

**Author Notification of Acceptance: March 15, 2019**

**Full Presentations Due: April 30, 2019**



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## 2019 MCFD Conference | Technical Topics

Abstracts are sought in the following areas:

- OPEX and lessons learned from recent FFS activities
- FFS case studies
- FFS programs, plans, and achievements
- Materials factors in FFS demonstrations
- Chemistry factors in FFS demonstrations
- FFS methodologies for
  - Steam generator tubing
  - CANDU fuel channels
  - PWR reactor vessel and internals
  - BWR reactor vessel and internals
  - Piping systems
  - Major heat exchangers
- Regulatory issues surrounding FFS
- Application of codes and standards in FFS
- Developments in probabilistic assessments
- Analytical tools
- Novel or innovative solutions
- Meeting the challenges of emerging issues

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Please submit abstracts to:

<https://www.softconf.com/k/mcfd2019>