



# 19th International Conference on Environmental Degradation of Materials in Nuclear Power Systems–Water Reactors

August 18-22, 2019 | Boston, MA | Seaport Hotel and World Trade Center



## CALL FOR PAPERS

### EXECUTIVE CHAIRS

#### General Chair

John Jackson, Idaho National Laboratory

#### Technical Program Chair

Denise Paraventi, Naval Nuclear Laboratory

#### Assistant Technical Program Chair

Stuart Medway, Wood Material Science Laboratory



## ABSTRACT DEADLINE: SATURDAY, DECEMBER 15, 2018

<b>NOVEMBER</b>		SUBMISSION OF ABSTRACTS: <b>Saturday, December 15, 2018</b>
<b>JANUARY</b>		AUTHOR NOTIFICATION OF ACCEPTANCE: <b>Monday, January 14, 2019</b>
<b>APRIL</b>		DRAFT PAPERS: <b>Monday, April 1, 2019</b>
<b>JUNE</b>		REVIEW NOTIFICATION: <b>Monday, June 3, 2019</b>
<b>JULY</b>		FINAL PAPERS/COPYRIGHT: <b>Monday, July 8, 2019</b>



### ABOUT THE MEETING

The purpose of the 19th Environmental Degradation meeting is to foster an exchange between plant operators, industry and academic researchers concerning materials degradation issues and solutions in water-cooled nuclear power plants of today and of the future. The meetings cover issues facing nickel base alloys, stainless steels, pressure vessel and piping steels, zirconium alloys, and other alloys in water environments of relevance. Components covered include pressure boundary components, reactor vessels and internals, steam generators, fuel cladding, irradiated components, fuel storage containers, and balance of plant components and systems. Join an international group of industrial and academic leaders for this opportunity to exchange experience, research and ideas to work towards solutions to these issues.

### GUIDELINES

Abstracts should be 250 words or less. Presenters must submit a full paper in order to receive a speaking slot and to be included in the proceedings. Submitted papers should target 12 pages or less in length; in certain cases up to 15 pages will be allowed but papers exceeding 15 pages will be returned for revision or rejected. Abstracts for posters will also be accepted without a requirement for a paper; however, authors who submit poster abstracts are strongly encouraged to provide full papers for publication. During technical reviews, some abstracts may be assigned as posters in order to accommodate as many authors as possible with limited availability for presentation slots. In the event that a presentation slot becomes available, the poster will be upgraded to a presentation and included in the final proceedings.

Please note that you will be asked to sign a copyright transfer form when you submit your paper for inclusion in the proceedings. However, at your discretion you may: substitute an alternate "permission to publish" form that is acceptable to your organization; modify the ANS copyright transfer form; or place a footnote on the first page of your paper indicating that you retain copyright to the work. While these options will not allow you to publish the exact same paper in journals, etc., it will allow you to publish the work with updates.

**SUBMIT AN ABSTRACT**  
[ans.org/meetings](http://ans.org/meetings)

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## TECHNICAL SESSIONS



The organizing committee is requesting abstracts in the following areas, including two new special sessions (in bold print):



- ACCIDENT TOLERANT FUEL CLADDING
- **ADDITIVE MANUFACTURING APPLICATIONS/PROGRESS**
- **ADVANCES IN MATERIALS COMPUTATIONAL MODELING SUPPORTING STRESS CORROSION CRACKING (SCC) AND FATIGUE UNDERSTANDING**
- BOILING WATER REACTOR (BWR) SCC
- BWR WATER CHEMISTRY
- CABLES AND CONCRETE AGING AND DEGRADATION
- GENERAL SCC AND SCC MODELING
- IRRADIATION ASSISTED SCC (IASCC) TESTING
- IRRADIATION DAMAGE–NICKEL ALLOYS
- IRRADIATION DAMAGE–STAINLESS STEELS
- IRRADIATION DAMAGE–SWELLING
- PLANT OPERATING EXPERIENCE
- PRIMARY WATER REACTOR (PWR) NICKEL SCC–INITIATION
- PWR NICKEL SCC–MECHANISTIC UNDERSTANDING
- PWR NICKEL SCC–ALLOY 690
- PWR OXIDES AND DEPOSITS
- PWR SECONDARY SIDE
- PWR STAINLESS STEEL SCC AND FATIGUE
- SPECIAL TOPICS
- STAINLESS STEEL AGING AND CASS
- WELDS, WELD METAL AND WELD ASSESSMENTS
- ZIRCONIUM AND FUEL CLADDING

