

# **25<sup>th</sup> International Conference On Structural Mechanics In Reactor Technology**

**SMiRT 25**

**August 4-9, 2019**

*Abhinav Gupta, Director CNEFS*  
*Chip Futrell, Director OPD*





**SMiRT-25 - Logo**



# Emerging Areas in US-Canada

## New Builds

**Challenges of Construction Costs and Schedules**

## Small Modular Reactor Program

**Nuscale to build first SMR in Idaho and Utah region**

**TVA has applied for a permit to build an SMR**

## Challenges of Decommissioning

**By 2019 – Increased need for safe and cost-effective strategies**

## Second License Renewal

**First application to be submitted by 2018-19**

# Ongoing Activities

<b>December 2015</b>	<b>Preliminary Contracts with Venue and Hotel</b>
<b>Spring 2016</b>	<b>Sponsorship Document Prepared</b>
<b>Late Spring 2016</b>	<b>AASMiRT – Silver Sponsorship</b>
<b>Summer 2016</b>	<b>Center CNEFS transformed to joint Civil-Nuclear Engineering</b>
<b>August 2016</b>	<b>Specialty workshop on Severe Accident Management at NC State University.</b>
<b>Winter 2016 - Present</b>	<b>Multiple proposals received for workshops. Discussions held with JASMiRT and first written proposal received about workshop from them.</b>
<b>Summer 2017</b>	<b>Detailed discussions with SNERDI in China</b>
<b>Fall 2017</b>	<b>Canadian Organizing Committee created</b>
<b>August 2017</b>	<b>First Announcement Printed and SMiRT 25 website goes live.</b>
<b>Fall 2017</b>	<b>Finalized Division Descriptions. Extensive Discussions with Canadian Organizations</b>
<b>Spring 2018</b>	<b>Creation of ISC and IOC almost final</b>
<b>Spring 2018</b>	<b>Second Announcement and Call for Abstracts (March 2018)</b>

# Canadian Organizing Committee

**Prof. John Luxat**

**Andrei Blahoianu**

**Neb Orbovic**

**Ayman Saady**

# Divisions and ISC

**Total of 12 Divisions**

**[Division Descriptions](#)**

**ISC Chair – Sujit Samaddar (USNRC, Formerly IAEA)**

**[Division Coordinators](#)**

**Abstract Submission**

**[Template for Abstract](#)**

# International Organizing Committee

**John Richards (EPRI)**

**Emmanuel Viallet (France)**

**Rita Barnwall (GAIN)**

**Hori Munio (Japan)**

**Greg Hardy (SGH)**

**Nawal Prinja (UK)**

**Gerry Wilkowski (EMC2)**

**Juan Carlos/ Dazhu Yang  
(IAEA)**

**Ho Neih (NEA)**

**Ken Kim (South Korea)**

**Canadian Representative**

**WANO**

# Proposals for Workshops

**Received multiple requests for “Workshops”**

**US Utilities – Significant interest in listening to presentations by leaders. Not much motivation to write papers – **Second License Renewal and SMRs****

**Workshops are quite popular at other competing conferences**

**JASMiRT – Formal Proposal Received. **Fukushima Update****

**IAEA – Discussions in progress**

**China – Discussion in progress – **New Builds****

**DOE – Discussion in progress – **Construction and Decommissioning****



# Opportunities for Young Engineers

**Full Time Students and Professionals with UG Degree in 2009 or recent**

**Annie Kammerer, Lisa Marshall, Justin Coleman**

**Follow lead of successful past activities**

**ANS to assist with young engineers**

**Poster Session for students and recent graduates**

**Shibata Award**

**Reduced fee for student registrations**

**Affordable accommodation in dorms at local universities**

**Hour with expert**

# Current Plans

## Pre- and Post- Conference

**There is an interest by some individuals but Board will be consulted before making any final decisions.**

**Potential conflict with conference will be assessed.**

**Planning Meeting – Proposed for Oct. 24-26, 2018 – NCSU Campus**

**Potential of a Technical Workshop at Planning Meeting in 2018**

## Technical Tours

**Nearby Operating Reactors**

**Siemens Turbine Manufacturing Facility**

**Westinghouse WEC Carolina Energy Solution**

# Important Dates

## Tentative Timeline

**August 2017: First Announcement**

**February 2018: Second Announcement and Call for Abstracts**

**August 2018: Deadline for abstract submission**

**December 2018: Notification of decision on abstract**

**Jan/Feb 2019: Full paper submission and registration begins**

**May/June 2019: Deadline for full paper submission**

# Financial Outlook

**Finances of SMiRT 25 are supported by following major activities**

## **NCSU-OPD provides the ultimate financial support:**

- **Absorbs any potential loss.**
- **Loans money for necessary expenses as needed**
- **Manages all the finances in accordance with University Policies.**
- **Collects income and reimburses expenses.**

## **CNEFS:**

- **Financial outlook for the next 3 years looks very promising.**
- **Students provide all the support**
- **Center's rising visibility increases SMiRT 25 visibility**

## **Sponsorships:**

- **University has created sponsorship document/flyer**
- **AASMiRT is Silver Sponsor**
- **Many US/Canadian Organizations to join after SMiRT24**

# Registration Fee

**Total of 5 papers per registration**

## Fee Structure

**Very Early Bird - \$900**

**Early Bird - \$1050**

**Regular - \$1200**

**On Site - \$1400**

**ASME-PVP (Prague, 2018) - Euro 1000 and 1200 on-site**

**NURETH (China, 2017) - \$850 - \$1100**

**ANS - International Congress on NPP (Charlotte, 2018) - \$900 - \$1200**

# Jaegar Lecture

**Ongoing Discussions with Core Organizing Group**

**One suggestion being considered**

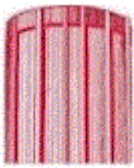
**National Academy of Engineers**

**Very widely recognized in Nuclear Energy Profession**

**Former Leader at USNRC**

**Leader in ANS and IAEA Activities**

**Strong history of participation and support for SMiRT**



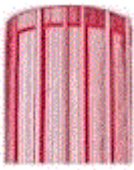
# NED Special Issue

## Co-Editors

**Andrew Whittaker**

**Abhinav Gupta**

**Sujit Samaddar (potentially)**



# State-of-the-Art Paper

## Three Proposals Received

**Construction Issues – Prabir Basu**

**Soil-Structure Interaction – Justin Coleman**

**Fracture Mechanics – Informal/Verbal Proposal**

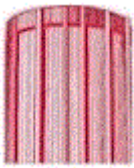


# Web Tool Online Conference Management

**Web Tool has been updated for significant increase in User Friendliness**

**NCSU OPD considers it as significantly better than commercial tools**

**Proceedings in state of the art electronic format**



## Contact Us

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