



YOKOHAMA SMiRT 27
2024

Third Announcement and Call for Abstracts

SMiRT 27

27th International Conference
on Structural Mechanics
in Reactor Technology

Next Generation Structural Mechanics in Reactor
Technology —Contributions for achievement of higher
reactor performance



PACIFICO Yokohama, Japan
March 3-8, 2024

www.smirt27.com



Japan Association of Structural Mechanics in Reactor Technology



Atomic Energy Society of Japan

WELCOME ADDRESS

The SMiRT 27 in Yokohama Japan will discuss what is “Next Generation Structural Mechanics in Reactor Technology” on the bases of lessons learned from the Fukushima Daiichi Nuclear power plant accident. It will be co-hosted by JASMiRT and Atomic Energy Society of Japan. Plenary lectures, special sessions, tutorials and workshops will be organized to discuss this topic in addition to the regular sessions. The SMiRT 27 aims to bring together leaders, managers, engineers, plant operators, regulators and academia working in the field of nuclear technology to make greater contribution for achievement of higher reactor performance. We hope that various efforts to improve world-wide nuclear safety, long-term operation in consideration of aging issues, communication between regulatory authorities and industries, standardization of reactor-independent codes/standards, etc. will be central issues in SMiRT 27, to establish “Next Generation Structural Mechanics in Reactor Technology.”

Dr. Tsuyoshi Takada
Conference Chair

TECHNICAL DIVISIONS

- Div.1 Mechanics of Materials
- Div.2 Fracture Mechanics and Structural Integrity
- Div.3 New Computation, Simulation and Visualization
- Div.4 External, Internal Hazards and Load Characterization
- Div.5 Modelling, Testing & Response Analysis of Structures, Systems and Components
- Div.6 Design Issues, Codes and Standards
- Div.7 Safety, Reliability, Risk and Safety Margins
- Div.8 Issues Related to Operation, Inspection and Maintenance
- Div.9 Fuel Cycle Facilities, Waste Management and Decommissioning
- Div.10 Advanced and Small Modular Reactors
- Div.11 Construction Management, Cost, Scheduling and Insurance
- Div.12 New Technologies (Additive Manufacturing, AI, Digital Twin, etc.)

SHIBATA EARLY CAREER AWARD

SMiRT 27 will continue the Shibata Early Career Award Sending in honor of Prof. Heki Shibata's achievements. The objective of the award is to identify and recognize outstanding work of young and early career professionals.

ROBERT KENNEDY AWARD

In recognition of Dr. Robert Kennedy's significant contributions to the nuclear industry, IASMiRT bestows this award to the author(s) of the best submitted technical paper on subjects related to Dr. Kennedy's field of practice.

INTERNATIONAL SCIENTIFIC COMMITTEE

Chaired by Dr. Naoto Kasahara, Japan

VENUE

The venue, PACIFICO Yokohama is the largest and No.1 All-in-One convention complex in Japan equipped with the functions and a directly connected hotel (InterContinental Yokohama Grand) in order to meet every requirement of SMiRT 27. It serves as a central facility in the convention area with over 8,100 hotel rooms, large shopping malls with a variety of entertainment, and dining options within walking distance.



	March 3rd Sun	March 4th Mon	March 5th Tue	March 6th Wed	March 7th Thu	March 8th Fri
Morning		Opening / Technical Session	Technical Session	Technical Session	Technical Session	Technical Session / Closing
Afternoon		Technical Session	Technical Session	Technical Session	Technical Session	-
Evening	Welcome Reception			General Assembly	Banquet	
Notes			Technical Tour	Technical Tour	Technical Tour	

Technical Tours

- Fukushima Daiichi NPP, Hamaoka NPP
- Central research Institute of Electric Power Industry Abiko Labo, Yokosuka Labo

Accompanying person's program: Social event



Tea Ceremony



Kimono Trial
and more - - -

KEY DATES

New Deadline for abstract submission: **March 31, 2023**

Deadline for paper submission: November 30, 2023