
5 – 6 May 2020
Berlin, Germany

CALL FOR PAPERS

to Technical Sessions

Version of October 2019

You are warmly invited to submit a technical or scientific paper to the 51st KERntechnik 2020. As one of Europe's most recognized and best established nuclear technology conferences the KERntechnik, organised by the KernD and the KTG, is a must-attend event for international experts and decision-makers.

Showcase your knowledge and be part of the KERntechnik programme – your benefits:

- Presentation of your work in a Technical Session
- Publication of your paper in the KERntechnik proceedings
- Best Paper Award – issued in the atw – International Journal for Nuclear Power
- Networking with numerous international experts
- 25 % speaker discount on the registration fee
- Subject to contents and speaker papers/presentations potentially considered as requisite qualification

Submit your topic online
by October 21, 2019

www.kerntechnik.com
#51KT

**KERN
TECH
NIK**
2020 

SUBMISSION GUIDELINE

What

Accepted papers will be presented in the context of a Technical Session during the KERntechnik and published in the KERntechnik proceedings on CD-ROM.

Please note that contributions must meet the formal requirements outlined in this invitation.

Important Dates and Deadlines

EXTENDED

Submission Open:	01.08.2019
Deadline for Submission of Topics:	21.10.2019
Notification of Acceptance:	18.11.2019
Compact Submission Open:	18.11.2019
Compact Submission Deadline:	16.12.2019
Early Bird Registration Deadline:	31.01.2020
Presentation (Charts) Submission:	April 2020
KERntechnik 2020:	05.-06.05.2020

Where

Please apply via the submission system:
+ kerntechnik-submission.com

Language

English.

Papers for the Technical Sessions within the Key Topic Decommissioning Experience & Waste Management Solutions can be also submitted in German.

Same applies with respect to lectures within this Key Topic, whereas charts to be presented in English.

How

Please fill in the online application form on the submission system at kerntechnik-submission.com with the topic of your paper as well as general information regarding your paper and the author(s) by October 21, 2019 – **Deadline extended.**

Please choose a subject (see list on the right) which corresponds best to the content of your paper and tick the relevant box corresponding to your preferred time for presentation.

The submission system will generate a temporary submission number that will be used in all correspondences. If you do not receive this number immediately after your submission please contact the conference help desk:
+ kerntechnik2020@lyve.de

Please submit your Compact after Notification of Acceptance of your submitted topic by December 1st, 2019.

Compacts should present new findings, the objectives, description of the methods employed and possibilities of generalisation.

Format

Compacts must be submitted as PDF document.

File Name

Please name the file by your name, for example if your name is Michael Brown, the file submitted should be named michael-brown-compact-1.pdf and in case you submit a second one it should be named michael-brown-compact-2.pdf etc.

Length:

Min. 4 pages, max. 8 pages
(including tables, pictures and graphs)

Page size:

DIN A4 (210 x 297 mm)

Type area:

Should not exceed 160 x 250 mm.

Font:

Arial, (12 pt)
If you use other fonts than Arial please embed all fonts in your PDF-file.

First page:

Must start with a box containing the title of your work, the name(s) of the author(s) and the affiliations given. This box must have the dimensions 65 x 160 mm.

Tables and figures:

Are to be included in the text or appended at the end.

References:

Should be indicated at the end of the text.

Layout

You can download a template from the website:
+ kerntechnik-submission.com

Procedure

Papers received will be subject to a peer review by experts both from science and industry. Papers on closely related subjects can be combined.

The registration fee for speakers of Technical Sessions will be reduced by 25 % (for regular fees see the conference website).

Especially younger colleagues (< 35) should be encouraged to present their work. Those belonging to this group are kindly requested to indicate their birthday.



Best Paper Award

The Peer Review Committee will award the best compact with the Best Paper Award, issued in outstanding position in **atw – International Journal for Nuclear Power.**

KEYNOTES AND SUBJECTS FOR TECHNICAL SESSIONS

Outstanding Know-How & Sustainable Innovations

Technical Session

Know-How, New Build and Innovations

Keynotes

to be announced

Subjects

- New Build Projects and Advanced Reactor Concepts
- Innovative Systems and Components at Existing Nuclear Power Plants and Installations
- Nuclear Energy Sources for Scientific and Medical Applications
- Application of Radio Nuclides
- Innovative Instrumentation and Detectors
- Fusion Technology and Materials
- Plasma Physics
- Licensing Processes
- Knowledge Management
- Education and Training
- Human Capacity Building and Preservation
- Simulators

Technical Session

Reactor Physics, Thermo and Fluid Dynamics

Keynotes

German Safety Research Facilities for Nuclear Applications as a Part of OECD-Projects

Dr. Martin Sonnenkalb

Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH, Germany (Tbc)

McSAFE-Monte Carlo Based Methods for High-fidelity Static and Transient Analysis of Reactor Cores

Dr. Víctor H. Sánchez Espinoza

Karlsruhe Institute of Technology, Germany (Tbc)

Development of OpenFOAM for Nuclear Power Plant Applications within the German CFD Network

Dr. Dirk Lucas

Helmholtz-Zentrum Dresden-Rossendorf, Germany (Tbc)

Subjects

- Mathematical Methods, including Numerical Procedures
- Computer Codes
- Application of Advanced Computer Systems
- In-core Management Codes
- Core Design
- Design of Core Cooling Systems
- Nuclear Data for Reactors
- Reactor Dynamics and Reactor Control

- Fuel Management Systems
- Criticality Analysis Actinides
- Experiments and their Interpretations
- Thermodynamics and Fluid Dynamic Aspects in Safety
- Plant Dynamics and Plant Control
- Nuclear and Thermodynamic Design of Research Reactors

Enhanced Safety & Operation Excellence

Technical Session

Operation and Safety of Nuclear Installations, Fuel

Keynotes

Taking Responsibility – the Scientific Backing of the German Quiver Project

Dr. Wolfgang Faber

PreussenElektra GmbH, Germany

Lifetime Extension of I&C-Modules

Dr. Lothar Mensching

PreussenElektra GmbH, Germany

Phase-out and Phase-in – Challenges and Opportunities

Dr. Ulrich Wilke

PreussenElektra GmbH, Germany

Subjects

- Reactor Chemistry and Power Plant Chemistry
- Component Materials and their Characteristics in Operation
- Mechanical Components and Systems in Reactor Plants
- Components of Auxiliary and Ancillary Systems
- Turbine Plants
- Electrical and I&C Equipment
- Computer-based Operation
- Maintenance and In-Service Inspection
- Quality Assurance
- Organisation of Power Plant Operation
- Man-Machine Interfaces
- Legal Aspects of Operation
- Operation of Research Reactors
- Application of Research Reactors
- Safety Analysis of Commercial Reactors for the Whole Lifetime and for all Operational States
- Safety Analysis in Waste Management
- Reliability and Safety of Nuclear Power Plants
- Safety Aspects of Research Reactors
- Periodic Safety Inspections and Safety Management
- Experimental Safety Studies
- Safety Evaluation of Backfitting Measures
- Passive Safety Systems for Accident Prevention and/or Mitigation
- Probabilistic Safety Assessment
- Probabilistic Risk Analysis
- Risk Informed Decision Making
- Design and Design Exceeding Accidents
- Accident Management and Severe Accident Management Guidelines
- Development and Application of Severe Accident Codes

- Severe Accident Research
- Radiation Protection
- Emergency Radiation Protection Measures
- Fuel Supply, Enrichment and Reprocessing
- Fuel Management
- Materials, Design and Fabrication
- Operational Behaviour
- In-pile Experiments
- Safeguards

Decommissioning Experience & Waste Management Solutions

Technical Session

E/D tsi E/D

Decommissioning of Nuclear Installations

Keynotes

to be announced

Subjects

- Decommissioning of Nuclear Power Plants and Research Reactors
- Decommissioning Installations of the Fuel Cycle
- Licensing and Legal Aspects of Decommissioning
- Radiation Protection
- Radiological Characterization as Basis of Decommissioning Concepts
- Management of Decommissioning Waste

Technical Session

E/D tsi E/D

Radioactive Waste Management, Storage and Disposal

Keynotes

to be announced

Subjects

- Treatment and Storage of Fuel Elements and Radioactive Waste
- Management of Operational Waste
- Transportation
- Interim and Final Storage
- Characterization of Radioactive Waste
- Characterization of Treated Radioactive Waste (Containers for Storage)
- Acceptance Criteria
- Radiation Protection During Management, Transportation and Storage

FURTHER INFORMATION



Contact

Submission

- + kerntechnik-submission.com
- + kerntechnik2020@lyve.de

Further Information

- + www.kerntechnik.com

Host

KernD

KTG

INFORUM Verlags- und Verwaltungsgesellschaft mbH (Organiser)

Robert-Koch-Platz 4
10115 Berlin
Germany

Media Partner

atw – International Journal for Nuclear Power
+ www.nucmag.com

Chairs of Review Committees and Keynote Coordinators

Technical Session: Know-How, New Build and Innovations

- › Chair of Review Committee and Keynote Coordinator

Dr. Matthias Lamm
Framatome GmbH

Technical Session: Reactor Physics, Thermo and Fluid Dynamics

- › Chair of Review Committee

Dr. Andreas Wielenberg
Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH

- › Keynote Coordinator

Dr. Tatiana Salnikova
Framatome GmbH

Technical Session: Operation and Safety of Nuclear Installations, Fuel

- › Chair of Review Committee

Dr. Thorsten Hollands
Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH

- › Keynote Coordinator

Dr. Erwin Fischer
PreussenElektra GmbH

Technical Session: Decommissioning of Nuclear Installations

- › Chair of Review Committee

Dr. Martin Brandauer
Karlsruhe Institute of Technology (KIT)

- › Keynote Coordinator

Thomas Seipolt
NUKEM Technologies Engineering Services GmbH

Technical Session: Radioactive Waste Management, Storage and Disposal

- › Chair of Review Committee

PD Dr. Ron Dagan
Karlsruhe Institute of Technology (KIT)

- › Keynote Coordinator

Dr. Anke Traichel
EWN Entsorgungswerk für Nuklearanlagen GmbH