

The International Expert Conference on Nuclear Technology

Jahrestagung Kerntechnik  
Annual Meeting  
on Nuclear Technology

49<sup>th</sup>

Estrel Convention  
Center Berlin  
Germany

29 – 30 May  
2018

## Key Topics

Outstanding Know-How &  
Sustainable Innovations

Enhanced Safety &  
Operation Excellence

Decommissioning Experience &  
Waste Management Solutions

## Call for Papers to Technical Sessions

You are warmly invited to submit a technical or scientific paper to the 49<sup>th</sup> Annual Meeting on Nuclear Technology (AMNT 2018). As one of Europe's most recognized and best established nuclear technology conferences the AMNT, organised by the DATf (German Atomic Forum) and the KTG (German Nuclear Society), is a must-attend event for international experts and decision-makers.

Submit your  
abstract online  
by 30 September  
2017

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

- ▶ Presentation of your work in a Technical Session
- ▶ **Publication** of your paper in the AMNT proceedings with ISBN number
- ▶ **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

**Don't miss this key event of the global nuclear energy community!**

▶ Media Partner



[www.nucleartech-meeting.com](http://www.nucleartech-meeting.com)



DATf

 KTG

# Submission Guideline



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.

## What

Accepted papers will be presented in the context of a Technical Session during the Annual Meeting on Nuclear Technology (AMNT) and published in the AMNT proceedings on CD-ROM with ISBN number. Please note that contributions must meet the formal requirements outlined in this invitation.

## Important Dates and Deadlines

|                                   |                |
|-----------------------------------|----------------|
| Online Abstract Submission open:  | 15.06.2017     |
| Online Registration open:         | 01.08.2017     |
| Abstract Submission Deadline:     | 30.09.2017     |
| Notification of Acceptance:       | 30.10.2017     |
| Compact Submission open:          | 01.11.2017     |
| Early Bird Registration Deadline: | 31.01.2018     |
| Compact Submission Deadline:      | 15.02.2018     |
| Presentation (Charts) Submission: | 11.05.2018     |
| AMNT 2018:                        | 29.-30.05.2018 |

## Where

Please apply via the submission system on the conference website:  
[www.nucleartech-meeting.com](http://www.nucleartech-meeting.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 conference website with general information regarding your paper and the author(s).

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: [amnt2018@cpo-hanser.de](mailto:amnt2018@cpo-hanser.de)

## Contents

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

Abstracts should contain a brief summary of the objective, methods, the main results and conclusions.

## Format

Abstracts and 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-abstract-1.pdf or michael-brown-compact-1.pdf and in case you submit a second one it should be named michael-brown-abstract-2.pdf or michael-brown-compact-2.pdf etc.

|                            | Abstracts   | Compacts   |
|----------------------------|---|--|
| <b>Length:</b>             | Min. 250 words, max. 400 words  | Min. 4 pages, max. 8 pages (including tables, pictures and graphs) |
| <b>Page size:</b>          | DIN A4 (210 x 297 mm)   |  |
| <b>Type area:</b>          | Should not exceed 160 x 250 mm.   |  |
| <b>Font:</b>               | Arial, (12 pt)<br>If you use other fonts than Arial please embed all fonts in your PDF-file.  |  |
| <b>First page:</b>         | 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 diameters 65 x 160 mm. |  |
| <b>Tables and figures:</b> | Are to be included in the text or appended at the end.  |  |
| <b>References:</b>         | Should be indicated at the end of the text.   |  |

## Layout

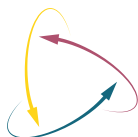
You can download templates from the conference website: [www.nucleartech-meeting.com](http://www.nucleartech-meeting.com)

## Procedure

Abstracts 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.



# Keynotes and Subjects for Technical Sessions

| Outstanding Know-How & Sustainable Innovations  | Enhanced Safety & Operation Excellence   | Decommissioning Experience & Waste Management Solutions   |
|---|--|---|
| <p><b>Technical Session   Know-How, New Build and Innovations</b></p> <p>Keynotes</p> <ul style="list-style-type: none"> <li>▶ <b>AP1000 – On the Way to Commercial Operation</b> <ul style="list-style-type: none"> <li>  Tba, Westinghouse</li> </ul> </li> <li>▶ <b>DEMO: The Remaining Crucial Step Towards the Exploitation of Fusion Power After ITER</b> <ul style="list-style-type: none"> <li>  Dr. Gianfranco Federici, EUROfusion, Spain</li> </ul> </li> <li>▶ <b>Co-Generation – A Game Changer in Polands New Build Plans?</b> <ul style="list-style-type: none"> <li>  Prof. Dr. hab. Grzegorz Wrochna, National Centre for Nuclear Research, Poland</li> </ul> </li> </ul> <p>Subjects</p> <ul style="list-style-type: none"> <li>■ New Build Projects and Advanced Reactor Concepts</li> <li>■ Innovative Systems and Components at Existing Nuclear Power Plants and Installations</li> <li>■ Nuclear Energy Sources for Scientific and Medical Applications</li> <li>■ Application of Radio Nuclides</li> <li>■ Innovative Instrumentation and Detectors</li> <li>■ Fusion Technology and Materials</li> <li>■ Plasma Physics</li> <li>■ Licensing Processes</li> <li>■ Knowledge Management</li> <li>■ Education and Training</li> <li>■ Human Capacity Building and Preservation</li> <li>■ Simulators</li> </ul>  | <p><b>Technical Session   Operation and Safety of Nuclear Installations, Fuel</b></p> <p>Keynotes</p> <ul style="list-style-type: none"> <li>▶ <b>Safe to the Last Day – a Challenge for Operators</b> <ul style="list-style-type: none"> <li>  Christoph Heil, Executive Director, EnBW Kernkraft GmbH, Germany</li> </ul> </li> <li>▶ <b>Is Safety Culture Perceptible and Measurable?</b> <ul style="list-style-type: none"> <li>  Uwe Stoll, Scientific and Technical Director, Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH, Germany</li> </ul> </li> <li>▶ <b>Preserving and Ensuring Competence and Motivation</b> <ul style="list-style-type: none"> <li>  Dr. Frank Sommer, Head of CoC Operations, PreussenElektra GmbH, Germany</li> </ul> </li> </ul> <p>Subjects</p> <ul style="list-style-type: none"> <li>■ Reactor Chemistry and Power Plant Chemistry</li> <li>■ Component Materials and their Characteristics in Operation</li> <li>■ Mechanical Components and Systems in Reactor Plants</li> <li>■ Components of Auxiliary and Ancillary Systems</li> <li>■ Turbine Plants</li> <li>■ Electrical and I&amp;C Equipment</li> <li>■ Computer-based Operation</li> <li>■ Maintenance and In-Service Inspection</li> <li>■ Quality Assurance</li> <li>■ Organisation of Power Plant Operation</li> <li>■ Man-Machine Interfaces</li> <li>■ Legal Aspects of Operation</li> <li>■ Operation of Research Reactors</li> <li>■ Application of Research Reactors</li> <li>■ Safety Analysis of Commercial Reactors for the Whole Lifetime and for all Operational States</li> <li>■ Safety Analysis in Waste Management</li> <li>■ Reliability and Safety of Nuclear Power Plants</li> <li>■ Safety Aspects of Research Reactors</li> <li>■ Periodic Safety Inspections and Safety Management</li> <li>■ Experimental Safety Studies</li> <li>■ Safety Evaluation of Backfitting Measures</li> <li>■ Passive Safety Systems for Accident Prevention and/or Mitigation</li> <li>■ Probabilistic Safety Assessment</li> <li>■ Probabilistic Risk Analysis</li> <li>■ Risk Informed Decision Making</li> <li>■ Design and Design Exceeding Accidents</li> <li>■ Accident Management and Severe Accident Management Guidelines</li> <li>■ Development and Application of Severe Accident Codes</li> <li>■ Severe Accident Research</li> <li>■ Radiation Protection</li> <li>■ Emergency Radiation Protection Measures</li> <li>■ Fuel Supply, Enrichment and Reprocessing</li> <li>■ Fuel Management</li> <li>■ Materials, Design and Fabrication</li> <li>■ Operational Behaviour</li> <li>■ In-pile Experiments</li> <li>■ Safeguards</li> </ul> | <p><b>Technical Session   Decommissioning of Nuclear Installations</b></p> <p>E/D tsiE</p> <p>Keynotes</p> <ul style="list-style-type: none"> <li>▶ <b>Decommissioning in the U.S. Rückbau in den USA</b> <ul style="list-style-type: none"> <li>  Tbc, Electric Power Research Institute (EPRI), USA</li> </ul> </li> <li>▶ <b>Waste Management in France Entsorgung in Frankreich</b> <ul style="list-style-type: none"> <li>  Tbc, French Alternative Energies and Atomic Energy Commission (CEA), France</li> </ul> </li> <li>▶ <b>Decommissioning in Europe Rückbau in Europa</b> <ul style="list-style-type: none"> <li>  Patrick J. O'Sullivan, Waste Technology Section, Division of Nuclear Fuel Cycle and Waste Technology, Department of Nuclear Energy, International Atomic Energy Agency (IAEA), Austria</li> </ul> </li> </ul> <p>Subjects</p> <ul style="list-style-type: none"> <li>■ Decommissioning of Nuclear Power Plants and Research Reactors</li> <li>■ Decommissioning Installations of the Fuel Cycle</li> <li>■ Licensing and Legal Aspects of Decommissioning</li> <li>■ Radiation Protection</li> <li>■ Radiological Characterization as Basis of Decommissioning Concepts</li> <li>■ Management of Decommissioning Waste</li> </ul> |
| <p><b>Technical Session   Reactor Physics, Thermo and Fluid Dynamics</b></p> <p>Keynotes</p> <ul style="list-style-type: none"> <li>▶ <b>Current Trends in CFD to Support NPP Licensing and Qualification</b> <ul style="list-style-type: none"> <li>  Tba, AREVA GmbH, Germany</li> </ul> </li> <li>▶ <b>International Cooperation in the Experimental Field of Nuclear Thermo-hydraulics: Primary Coolant Loop Test Facility (PKL)</b> <ul style="list-style-type: none"> <li>  Tba, OECD, France</li> </ul> </li> <li>▶ <b>Insides of End-of-Life Core Design from Utility Point of View</b> <ul style="list-style-type: none"> <li>  Dr. Marcus Seidl, PreussenElektra GmbH, Germany</li> </ul> </li> </ul> <p>Subjects</p> <ul style="list-style-type: none"> <li>■ Mathematical Methods, including Numerical Procedures</li> <li>■ Computer Codes</li> <li>■ Application of Advanced Computer Systems</li> <li>■ In-core Management Codes</li> <li>■ Core Design</li> <li>■ Design of Core Cooling Systems</li> <li>■ Nuclear Data for Reactors</li> <li>■ Reactor Dynamics and Reactor Control</li> <li>■ Fuel Management Systems</li> <li>■ Criticality Analysis Actinides</li> <li>■ Experiments and their Interpretations</li> <li>■ Thermodynamics and Fluid Dynamic Aspects in Safety</li> <li>■ Plant Dynamics and Plant Control</li> <li>■ Nuclear and Thermodynamic Design of Research Reactors</li> </ul> | <p><b>Technical Session   Radioactive Waste Management, Storage and Disposal</b></p> <p>E/D tsiE</p> <p>Keynotes</p> <ul style="list-style-type: none"> <li>▶ <b>Challenges in the Management of Concrete Waste from the Dismantling of Nuclear Facilities – Case Study NPP Rheinsberg Herausforderung Betonentsorgung aus dem Rückbau nuklearer Anlagen am Beispiel des KKW Rheinsberg</b> <ul style="list-style-type: none"> <li>  Jörg Möller, EWN Entsorgungswerk für Kernanlagen GmbH, Germany</li> </ul> </li> <li>▶ <b>Managing Waste at the Remote-handled Dismantling of Activated Concrete and Steel Structures of the Biological Shield of KNK Abfallmanagement beim fernhantierten Rückbau von aktivierten Beton- und Stahlstrukturen des Biologischen Schildes der KNK</b> <ul style="list-style-type: none"> <li>  Johannes Rausch, KTE Kerntechnische Entsorgung Karlsruhe GmbH, Germany</li> </ul> </li> <li>▶ <b>Clearance Measurement of Demolition Waste: Measurement Process with High Operational Throughput Freimessung von Abbruch-Bauschutt: Messverfahren für hohen Durchsatz</b> <ul style="list-style-type: none"> <li>  Dr. Stefan Thierfeldt, Brenk Systemplanung GmbH, Germany</li> </ul> </li> </ul> <p>Subjects</p> <ul style="list-style-type: none"> <li>■ Treatment and Storage of Fuel Elements and Radioactive Waste</li> <li>■ Management of Operational Waste</li> <li>■ Transportation</li> <li>■ Interim and Final Storage</li> <li>■ Characterization of Radioactive Waste</li> <li>■ Characterization of Treated Radioactive Waste (Containers for Storage)</li> <li>■ Acceptance Criteria</li> <li>■ Radiation Protection During Management, Transportation and Storage</li> </ul>   |   |

# Further Information

## Contact

Submission and further information will be available from 15<sup>th</sup> June 2017

► [www.nucleartech-meeting.com](http://www.nucleartech-meeting.com)

If you need assistance, you may call the conference hotline daily from Monday to Friday, from 9 a.m. to 5 p.m. (CET)

► **+49 40 670882-0**

or send an e-mail to the conference help desk

► [amnt2018@cpo-hanser.de](mailto:amnt2018@cpo-hanser.de)

## Host

**DAtF** (German Atomic Forum)


**KTG** (German Nuclear Society)

**INFORUM** Verlags- und Verwaltungsgesellschaft mbH (Organiser)

Robert-Koch-Platz 4

10115 Berlin | Germany

## Media Partner

 – International Journal for Nuclear Power  
[www.nucmag.com](http://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** | AREVA GmbH

### Technical Session | Reactor Physics, Thermo and Fluid Dynamics

Chair of Review Committee

**Dr. Andreas Schaffrath** | Gesellschaft für Anlagen- und Reaktorsicherheit (GRS) gGmbH

Keynote Coordinator

**Dr. Tatiana Salnikova** | AREVA 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

**Martin Brandauer** | Karlsruhe Institute for Technology (KIT)

Keynote Coordinator

**Thomas Seipolt** | NUKEM Technologies Engineering Services GmbH

### Technical Session | Radioactive Waste Management, Storage and Disposal

Chair of Review Committee

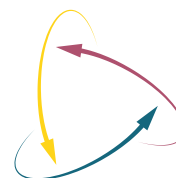
**Dr. Alexander Zulauf** | NUKEM Technologies Engineering Services GmbH

Keynote Coordinator

**Iris Graffunder** | EWN Entsorgungswerk für Nuklearanlagen GmbH

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