

Advanced Materials and Technologies (AMT) 2026 conference



Computational Materials for Nuclear Applications symposium, organized by NOMATEN

June 14-17, 2026 | Łódź, Poland

<https://amt2026.syskonf.pl/>

About the Symposium

This symposium brings together leading researchers at the intersection of materials science, computational mechanics, and nuclear engineering to address the performance and reliability of materials under extreme environments. The session spans scales from the atomistic to the structural, combining cutting-edge experimental techniques with advanced computational modeling – including multiscale numerical methods, coupled multi-physics constitutive models, and data-driven approaches – to predict material behaviour, failure, and degradation under harsh nuclear and structural service conditions.

Key Topics

- ❖ Multiscale modeling of complex engineered materials
- ❖ Radiation effects and materials performance in nuclear environments
- ❖ Coupled multi-physics constitutive models for ductile metals
- ❖ Structural failure prediction and damage mechanics
- ❖ Data-driven and machine learning approaches in materials science
- ❖ Design and qualification of materials for extreme environments

Organizers



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