

## IMPORTANT DATES

**Feb 15, 2024**

*Abstract Submission opens*

**April 15, 2024**

*Abstract Submission closes*

**June 15, 2024**

*Notification of abstract acceptance*

**June 16, 2024**

*Online registration opens*

**July 31, 2024**

*"Early bird" registration closes*

**Nov 24, 2024**

*Conference commences*

## PROCEEDINGS

The proceedings of ICACS and SHIM 2024 are anticipated to be published as a Special Issue in Nuclear Instruments and Methods in Physics Research Section B (NIM B). Manuscripts are submitted to EES through the Special Issue portal and go through a peer review process to the same standard as for regular NIM B articles.

**For more info**

[www.icacs-shim2024.com](http://www.icacs-shim2024.com)  
[icacs.shim2024@gmail.com](mailto:icacs.shim2024@gmail.com)

**Come and join us**

Building 160, 60 Mills Road, Research School of Physics,  
 Australian National University, Canberra, Australia 2601

First Announcement



Australian  
National  
University

**ICACS & SHIM 2024**  
 24 - 29 Nov, 2024 | Canberra, Australia

30th International Conference on Atomic Collisions in Solids &  
 12th International Symposium on Swift Heavy Ions in Matter

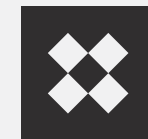


**24/11/2024**

**Research School of Physics**

**Australian National University**

**Canberra, Australia**



[www.icacs-shim2024.com](http://www.icacs-shim2024.com)



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## TOPICS

### ICACS

- Charge-exchange processes;
- Particle excitation and ionization;
- Energy loss, scattering and channelling of primary and secondary particles;
- Electron, atom, ion and photon emission processes;
- Slow highly-charged-ion interactions at surfaces;
- Radiation damage and materials modification, including nuclear-energy materials;
- High energy density physics with intense ion beams and in relation to plasma physics;
- Collision-induced physical, chemical and biological reactions

### SHIM

- Interactions of swift heavy ions with gases, liquids, solids and plasma;
- Electronic excitation, charge transfer processes, and local energy deposition;
- Conversion of electronic excitation energy into atomic motion, and atomic displacements;
- Material modifications, ion track formation and modification;
- Creation of point defects and defect clusters, sputtering, mixing and recrystallisation;
- Materials response in extreme environments;
- Chemical and biological radiation effects;
- Swift heavy ion-induced processes in organic and inorganic materials;
- Radiobiology and tumour therapy with ion beams
- Heavy-ion micro-and nanotechnology;
- Effects of swift heavy ions on electronic devices;
- Geological, astrophysical and other applications based on high-energy accelerators;
- Dynamics of nuclear reactions and investigation of nuclear structure and dark matter

## LOCAL COMMITTEE

### *Conference Chair*

Patrick Kluth

### *Committee Members*

- |                      |                |                   |
|----------------------|----------------|-------------------|
| • Shankar Dutt       | • Jodie Bradby | • Robert Elliman  |
| • Christian Notthoff | • Nahid Afrin  | • Jessica Wierbik |
| • Qingbo Sun         |                |                   |

*More to come*