

Preface: 9th Heavy Ion Accelerator Symposium (HIAS) 2025

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Figure 1: Participants of the Heavy Ion Accelerator Symposium 2025

The Department of Nuclear Physics and Accelerator Applications at the Australian National University (ANU) was delighted to welcome delegates from research institutions around the globe to the 9th Heavy Ion Accelerator Symposium (HIAS). After a six year break on the international stage, partially due to challenging international travel circumstances, the latest installment in this conference series took place from the 7th - 12th of September 2025. In the tradition of previous symposia, it brought together researchers from nuclear, accelerator, medical, and environmental sciences. The symposium provided a platform to facilitate scholarly exchange and build cross-disciplinary, international connections between experienced scientist, postgraduate, and undergraduate research students for future collaborations, using the capabilities of Heavy Ion Accelerators.

Around one hundred delegates representing research institutions from 16 countries attended the conference and were welcomed to Canberra with a traditional “Welcome-to-Country” ceremony conducted by Paul Girrawah House, an Elder representative of the Aboriginal Ngambri-Ngunnawal community. The conference was officially opened by Prof Jodie Bradby, director of the ANU

Research School of Physics and Dr Tom McGoram, CEO of HIA (Heavy Ion Accelerators). Over the five days of the conference 57 oral and 16 poster presentations covered diverse topics across:

- Nuclear structure,
- Nuclear reactions,
- Accelerator mass spectrometry, and
- Nuclear science and society.

The conference dinner was held at the Australian Academy of Science’s iconic Shine Dome. In an entertaining “pub-quiz-style” event, detailed knowledge of marsupial species gave a significant advantage to one group of contestants in an otherwise balanced competition.

Sadly one of the delegates, Dr Roderick Clark, highly respected senior scientist in the Nuclear Science Division at Berkeley National Laboratory, valued colleague and dear friend to many of the HIAS participants has passed away on December 29th 2025. He will be dearly missed and fondly remembered in this community.

We hope you enjoy reading these proceedings and cordially invite you to participate in future editions of the Heavy Ion Accelerator Symposium series.

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HIAS 2025 Organising Committee

- Dr AJ Mitchell (Symposium Co-Chair)
- Dr Kaitlin Cook (Symposium Co-Chair)
- Dr Stefan Pavetich (Symposium Co-Chair)
- Alina Bryleva
- Petra Rickman
- Alexandra Popko
- Prof Mahananda Dasgupta
- Prof Gregory Lane
- A/Prof Stephen Tims
- Dr Michaela Froehlich
- Dr Zuzana Slavkovská
- Dr Tom McGoram
- Emeritus Prof David Hinde
- Dr Jackson Dowie
- Dr Jacob Buete
- Dr Lachlan McKie
- Aditya Babu
- Victoria Bashu
- Sharon Goh
- Ingrid McCarthy
- Dr Sandra Saji
- Dr Nikolai Lobanov

HIAS 2025 Scientific Committee

- Dr Kaitlin Cook
- Prof Mahananda Dasgupta
- Dr Michaela Froehlich
- Prof Gregory Lane
- Dr Tom McGoram
- Dr AJ Mitchell
- Dr Stefan Pavetich
- Dr Zuzana Slavkovská
- A/Prof Stephen Tims

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