

**Workshop on Accelerator Mass Spectrometry: Exploring Opportunities and Challenges Ahead
21st November 2022**

| Time | Topic |
|-------------|--|
| 10:00-10:10 | Welcome: Acknowledgement of Country and introduction to Accelerator Mass Spectrometry (AMS) |
| 10:10-10:40 | Introduction to radioisotope dating and tracing capabilities, and overview of Australian facilities: <ul style="list-style-type: none"> • ANSTO Centre for Accelerator Science • ANU Heavy Ion Accelerator Facility and Radiocarbon Dating Laboratory • UNSW ¹⁴Chronos |
| 10:40-12:00 | Impact showcase - opportunities and challenges in the following AMS application areas: <ul style="list-style-type: none"> • Earth's climate-carbon system • Groundwater and resource management • Nuclear fallout for environmental tracing and astrophysics • Forensics and food authentication • Archaeology & cultural heritage • Environmental studies & past climates • Landscape evolution • Future Applications |
| 12:00-12:10 | Key facility contacts |
| 12:10-12:30 | Questions /discussion |
| 12:30-13:30 | Lunch Break |
| 13:30-13:45 | Introduction: plan for the afternoon |
| 13:45-14:30 | Breakout groups to identify challenges and future needs |
| 14:30-15:00 | Breakout groups report to larger group |
| 15:00-15:15 | Afternoon tea |
| 15:15-16:45 | Round table discussion on findings and where to next |
| 16:45-17:00 | Wrap-up of the day: Future AMS capability challenges, needs, and developments |