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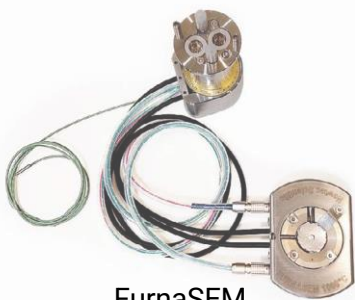
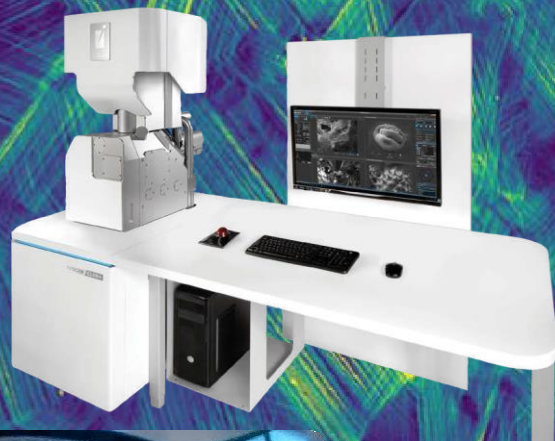
Beyond Static Microscopy: In-situ Experiments Enabled by **TANIST**

Date: Friday, 24th of July
Time: 10:30 -- 11:30
Contacts: Ron <r.rasch@uq.edu.au>
Ali <ali.ramezannejad@axt.com.au>

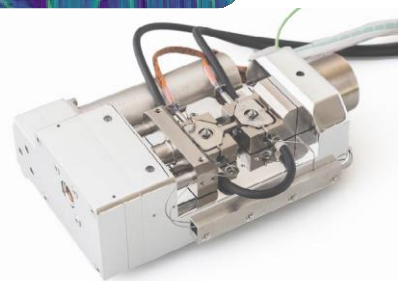
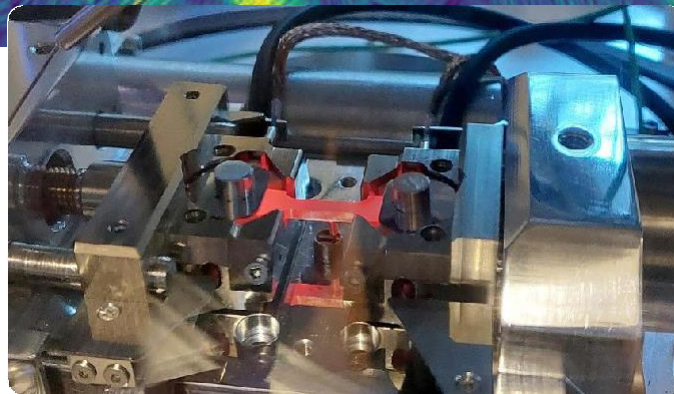
Seminar Room
AIBN (building #75) Lvl 1
University of Queensland

RESERVE A SEAT

Join us to learn about
TANIST, a unique
SEM-based *in-situ*
thermo-mechanical
testing system.



FurnaSEM
Heating stage



MT1000
Thermo-mechanical stage



Dr. Ali Ramezannejad | SEM Application Specialist

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Dr Ali Ramezannejad holds a PhD in physical metallurgy of titanium alloys from RMIT University, where his recent research led to the invention of a novel class of biocompatible Ti alloys with exceptional corrosion resistance and shape memory properties. Following the PhD, he worked as an R&D engineer across various industries—including renewable energy, biotechnology, and mining—contributing to the development of numerous technologies. He later joined CSIRO as a postdoctoral fellow, focusing on the additive manufacturing of thermal and magnetic shape memory alloys. Dr Ramezannejad currently manages a unique SEM-based in-situ thermo-mechanical testing system at MCEM, capable of conducting experiments at temperatures up to 1200 °C and loads up to 10 kN, while performing simultaneous EBSD, EDS, and BSE imaging.



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