Babs Fairchild

RMIT University

A triple ion beam system: what are the benefits of FIB milling with He, Ne or Ga ions

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Sala Wataghin, Dipartimento di Fisica, via P. Giuria 1, Torino

contatto: Paolo Olivero (olivero@to.infn.it)

Abstract

Focused ion beam milling with 30 keV gallium ions has been an industry standard for many years. The development of helium and neon ion beam imaging and milling systems has pushed this field into a new area of development. I will discuss the pro's and con's of this system as well as detailing some of the aspects of operation of the Zeiss NanoFab tool.

The speaker

Babs Fairchild is a Technical and Process Officer at the Micro Nano Research Facility at RMIT University. She is solely responsible for the operation of the Zeiss Orion NanoFab instrument which operates with helium, neon and gallium beams. Her research interests include diamond optics and micro-machining. Babs completed her physics PhD under the supervision of Steven Prawer at the University of Melbourne, and her undergraduate chemistry degrees at the University of Adelaide. She has also worked on the ESA project Rosetta, as part of the Ptolemy team building a light element isotope GC-MS system.