Progress Towards Cryo FIB Lift-Out

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Just as in medicine, a key goal for sample preparation is to "do no harm". For many types of samples, including semiconductor as well as biological, preparation at cryogenic temperatures is a valuable aid to reduce artifacts. While there are many types of samples and protocols available for cryo FIB preparation, the availability of cryo FIB lift-out remains elusive. This presentation will discuss the current status of efforts to develop cryo FIB lift-out solutions and results of cryogenic milling of different materials from organic to inorganic.