

## **Collecting, handling, and preserving marine samples for speciation of soft, tender, and hard X-ray elements**

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In marine biogeochemical cycles, any given element of interest is affected by multiple processes, including the pools, fluxes, and specific chemical forms of other elements. In this presentation, practical approaches for planning synchrotron studies involving natural samples will be shared. In particular, how to plan for complementary soft, tender, and hard X-ray analysis of chemical speciation for X-ray microscopes, microprobes, and bulk beamlines.