

Ball Assisted Device for Analytical Surface Sampling

Disclosure Number

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Technology Summary

The ORNL patented and licensed liquid microjunction surface sampling probe (LMJ-SSP) has limited ability to analyze materials from adsorbant surfaces. Solvent can be lost to the surface surface or analytes moved out from vicinity of probe by solvent flow into surface. Moreover, the open sampling end may not be robust for certain applications and non-expert users. This invention provides a solution through an alternative design for the sampling end of the probe that incorporates a ball. The inventive ball assisted device for analytical surface sampling might be used to transfer material from a surface to the ball and into a solvent. The ball end alleviates issues with solvent leaking to environment and allows sampling wettable surfaces.

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