



IBTN-USA

Fretting Corrosion Behavior at Modular Junctions as a Function of Displacement

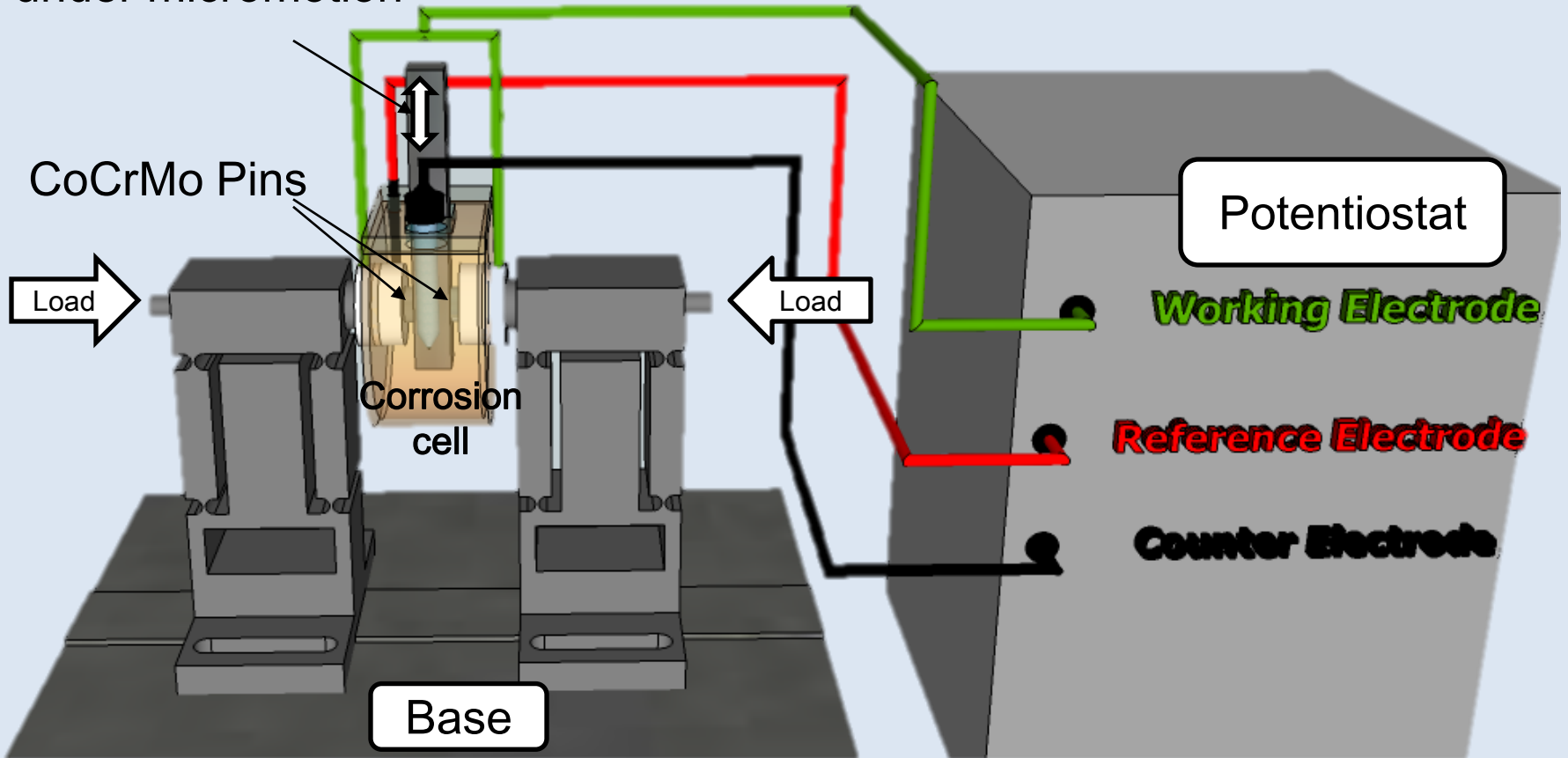
Dmitry Royhman

Advisor: Dr. Mathew

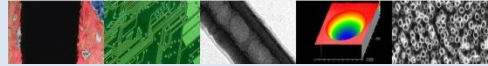
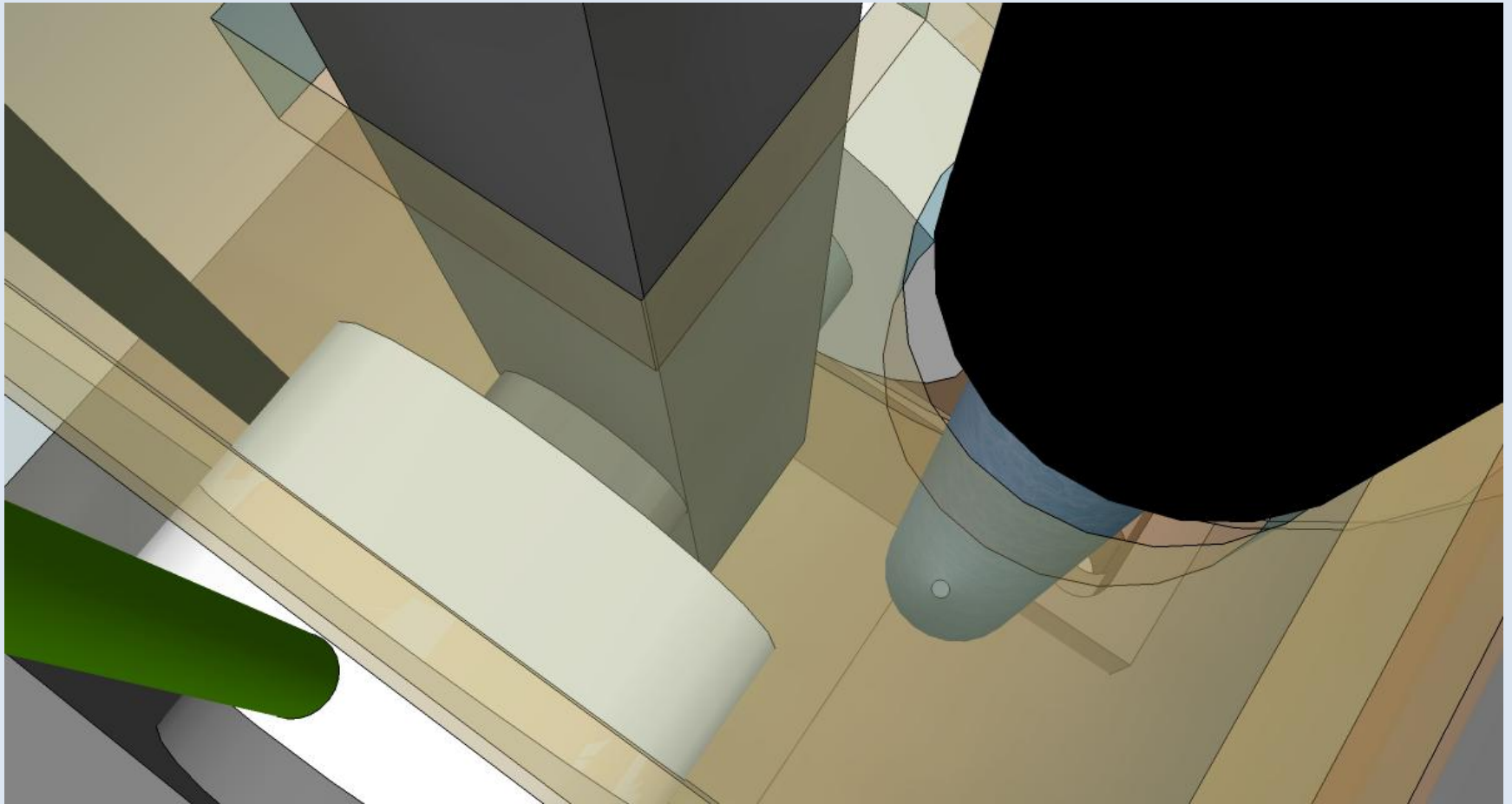
February 21st 2014

Tribometer Setup

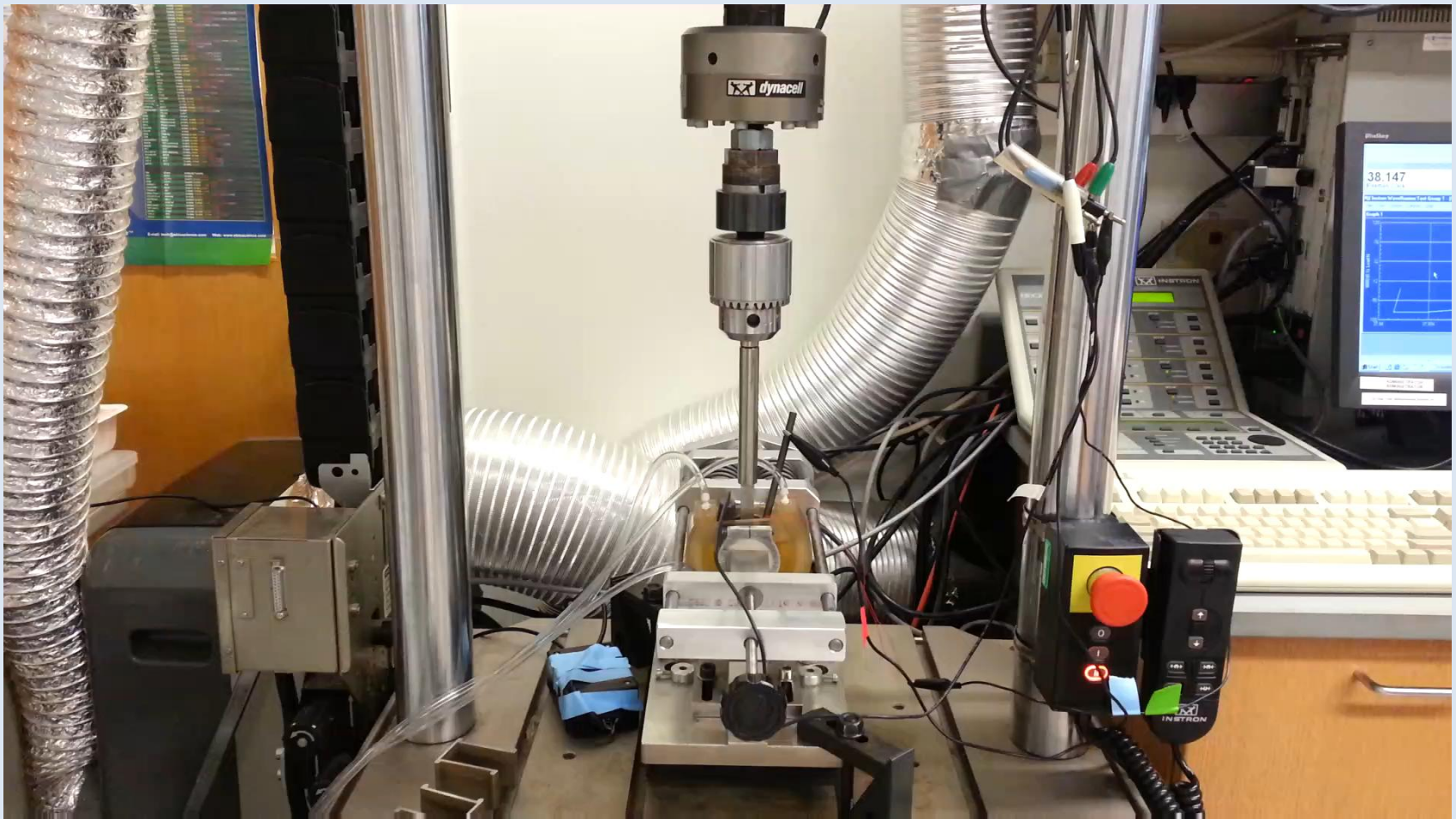
Ti6AL4V Rod
under micromotion



Tribometer Setup

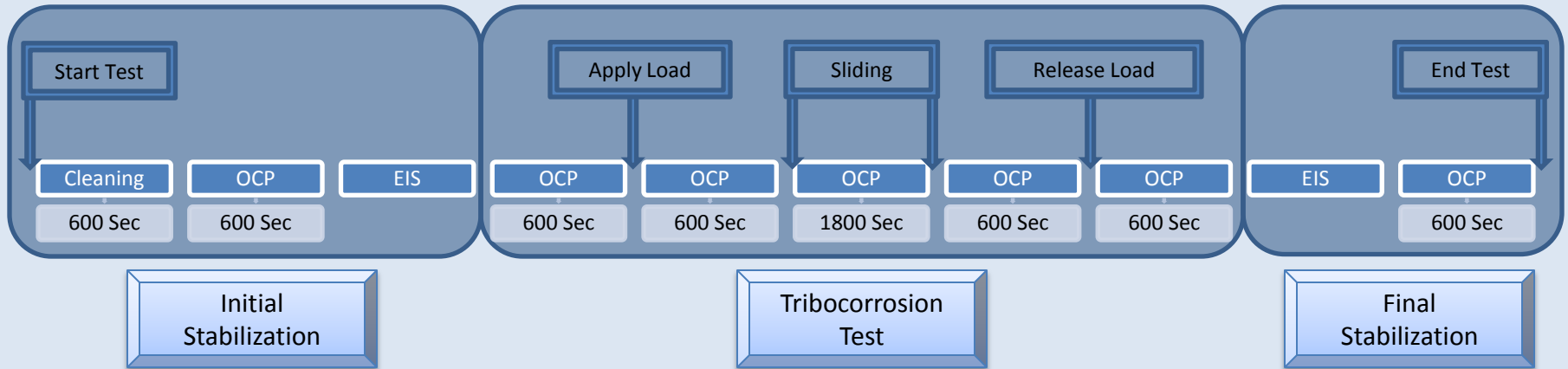


Tribometer Setup

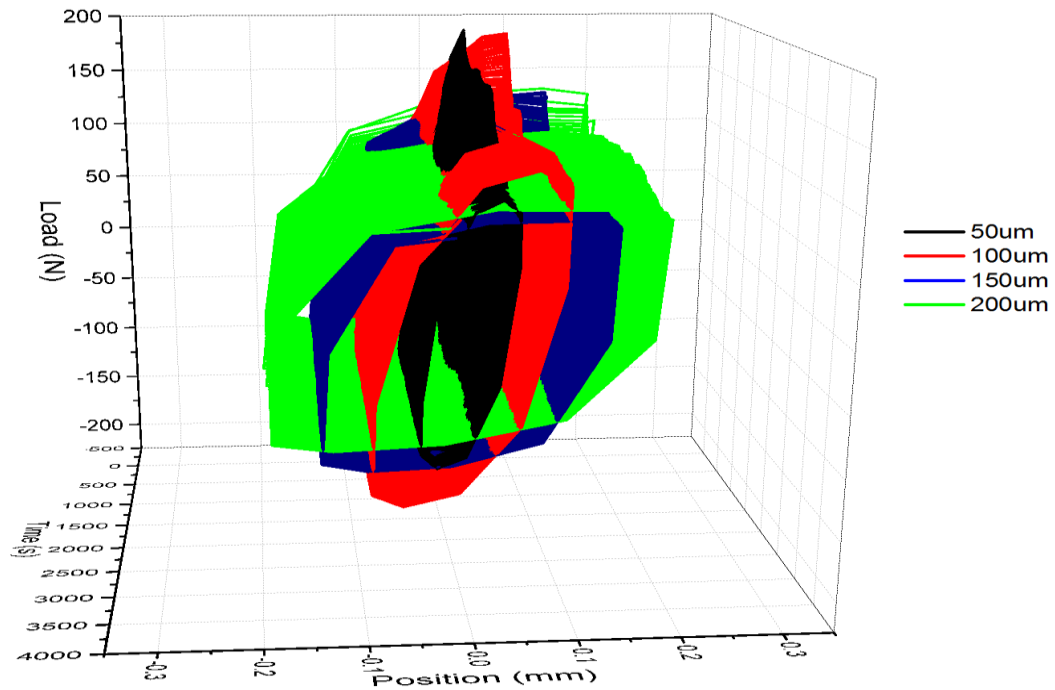


Experiment Protocol

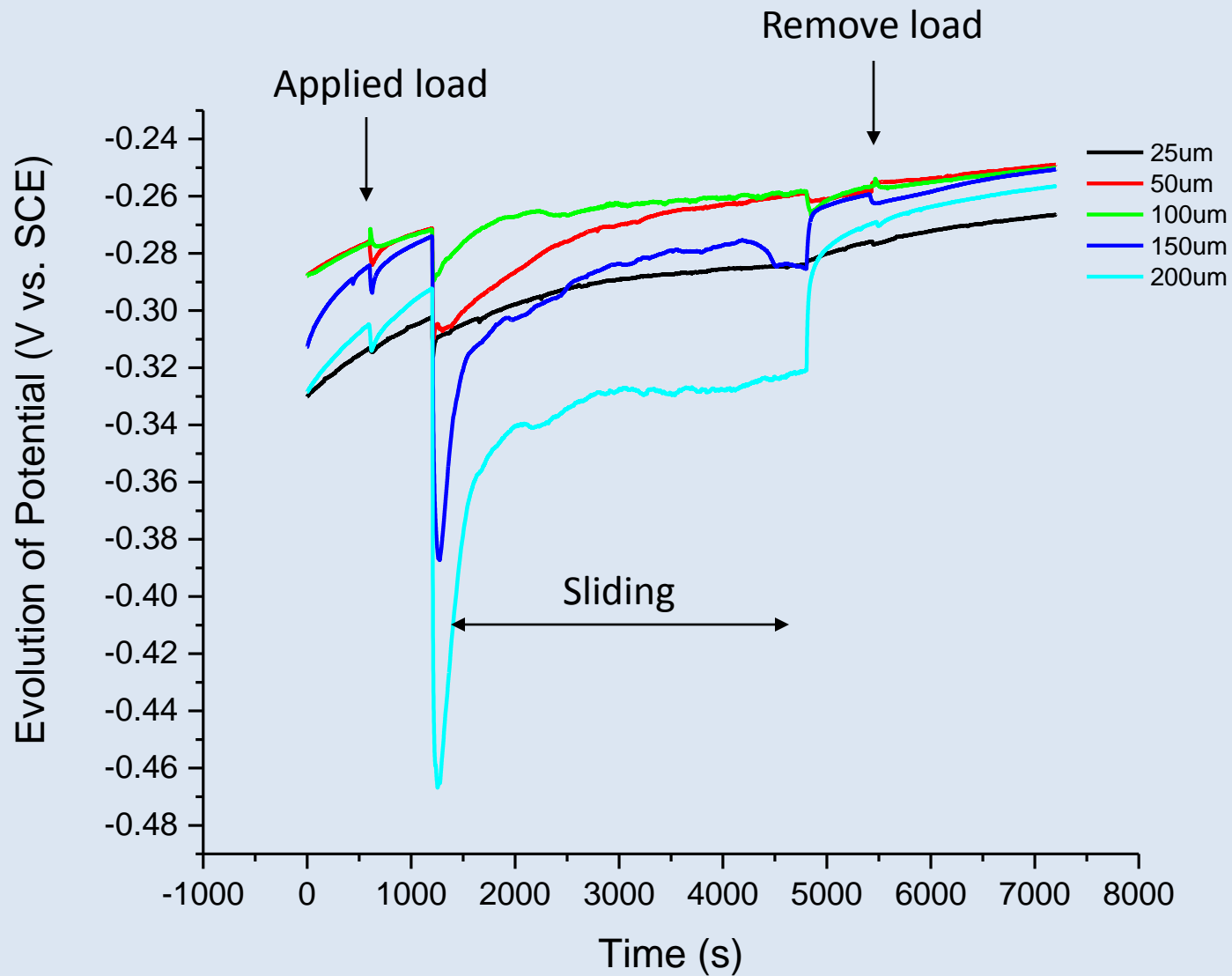
Corrosion Potential Measurement (Free Potential)

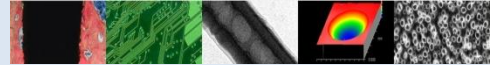


GroupF

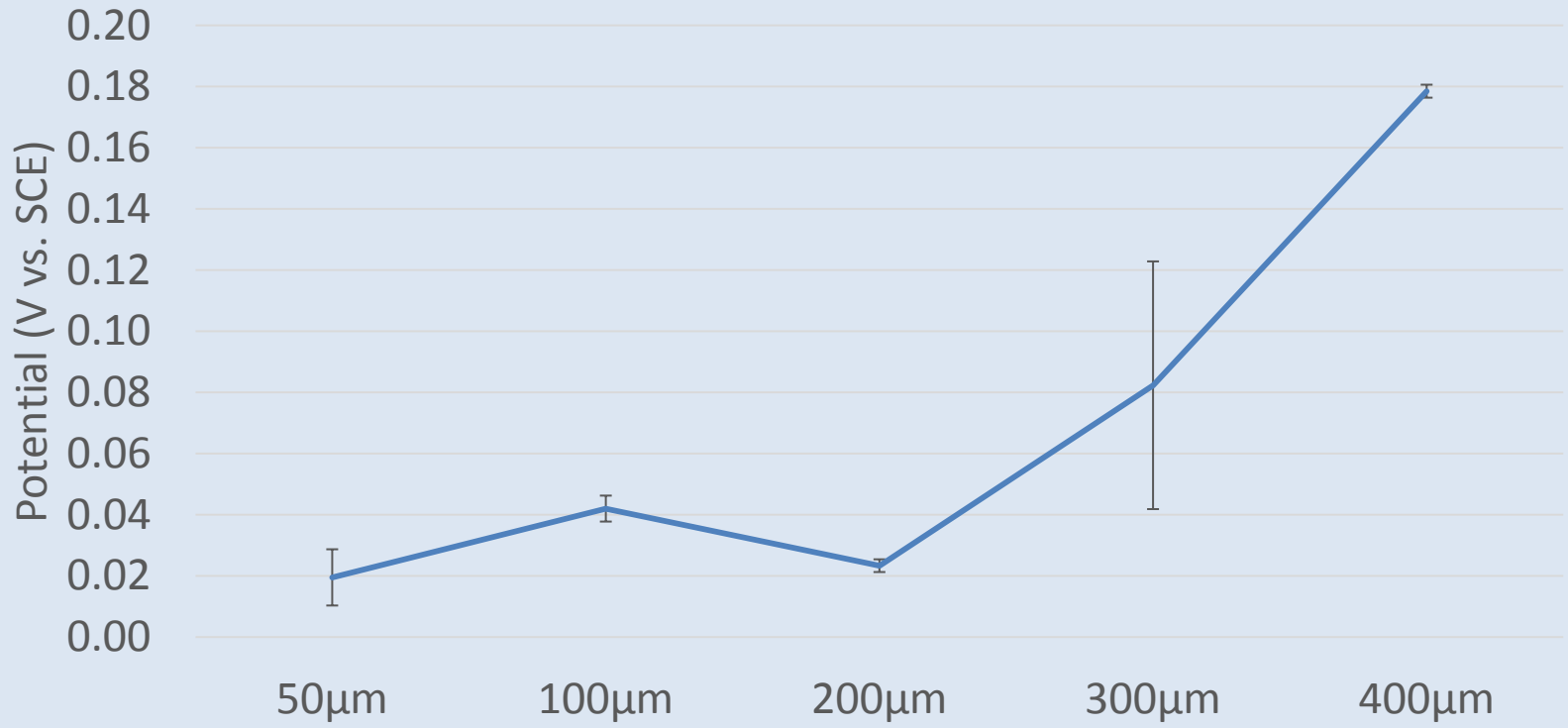
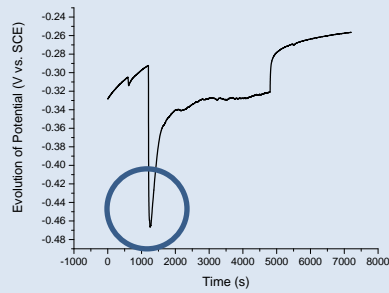


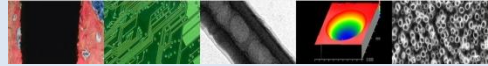
Evolution of Potential



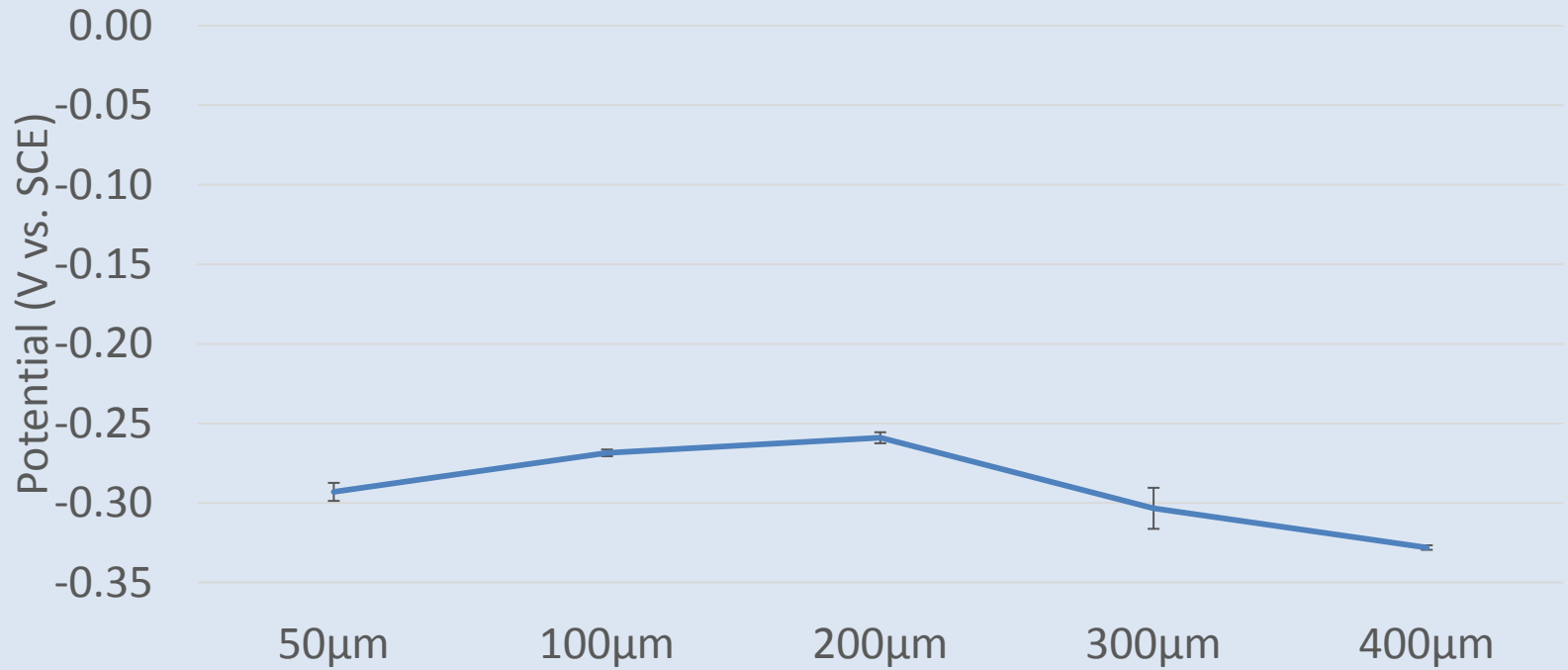
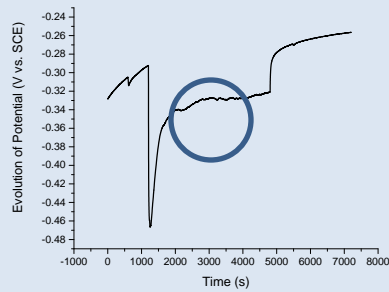


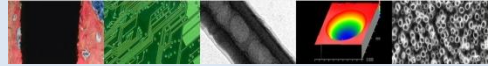
V_{drop}



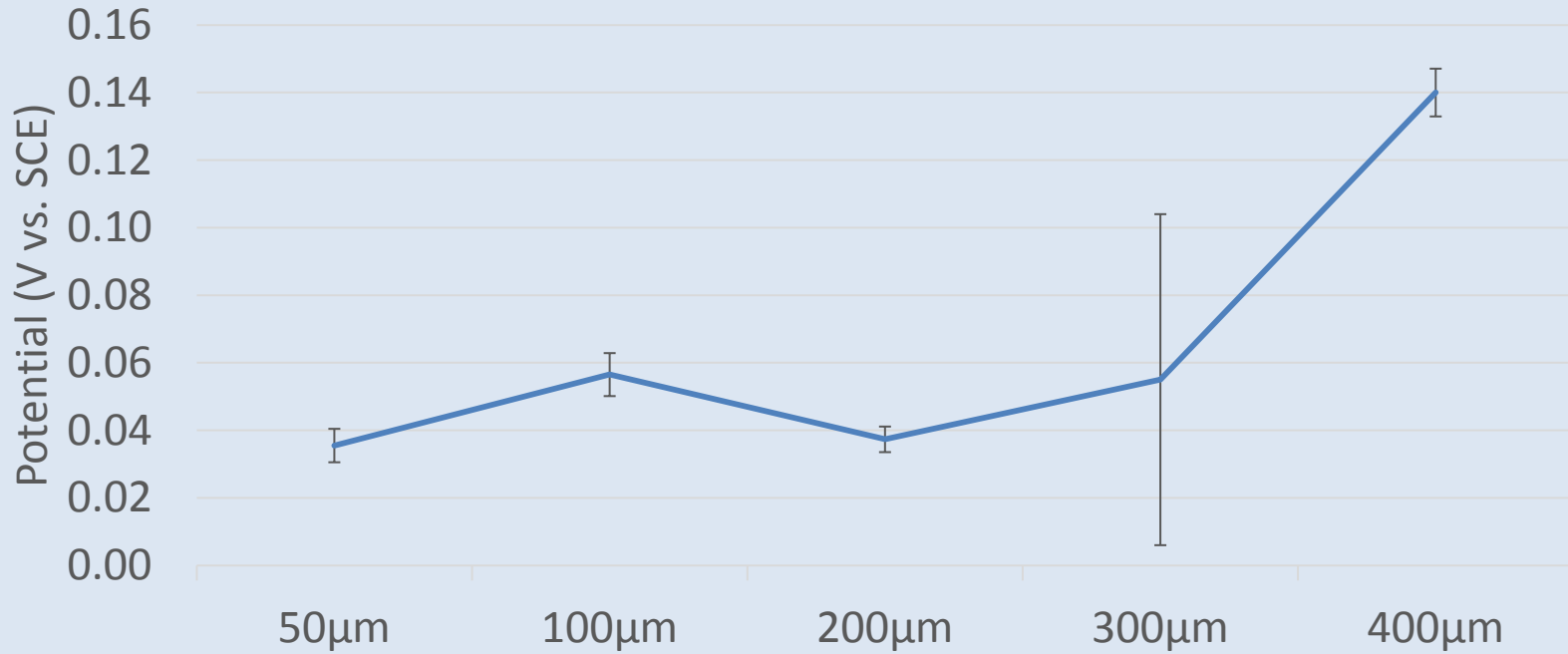
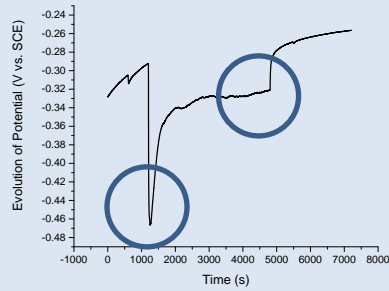


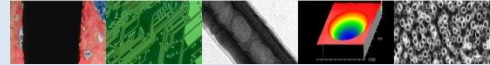
V Fretting





ΔV Fretting





V_{recovery}

