



# Rebecca Schaller

Assistant Professor

Department of Materials Engineering, UBC Vancouver

Phone: 604-822-8745

Email: [Rebecca.schaller@ubc.ca](mailto:Rebecca.schaller@ubc.ca)

<http://mtrl.ubc.ca/faculty/rebecca-schaller/>

## Research Theme

Aerospace and Transportation Materials and Manufacturing (ATMM)

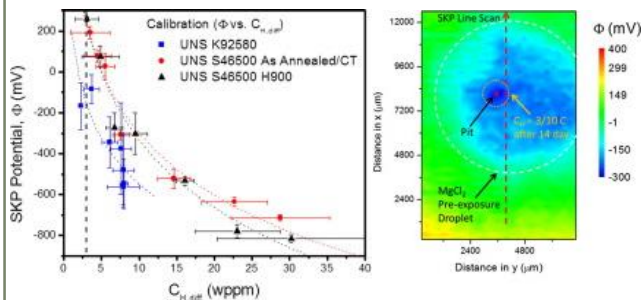
## Research Areas

- Corrosion of additively manufactured alloys
- Atmospheric corrosion
- Hydrogen embrittlement, hydrogen detection
- Localized corrosion

## Research Facilities/Tools

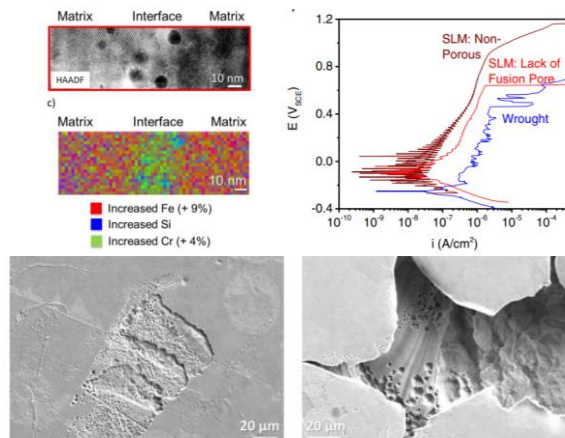
- Electrochemical testing equipment for polarization testing and electrochemical impedance spectroscopy
- HEKA scanning electrochemical microscope
- Hydrogen detection techniques: electrochemical permeation and barnacle cell analysis
- Zeiss Sigma Field Emission Gun scanning electron microscope
- Advanced optical microscopy

### Local Hydrogen Detection



*Electrochemistry Communications (2016)*

### AM Alloy Corrosion



*Corrosion (2018)*