

**Surface composition of multicomponent glass**

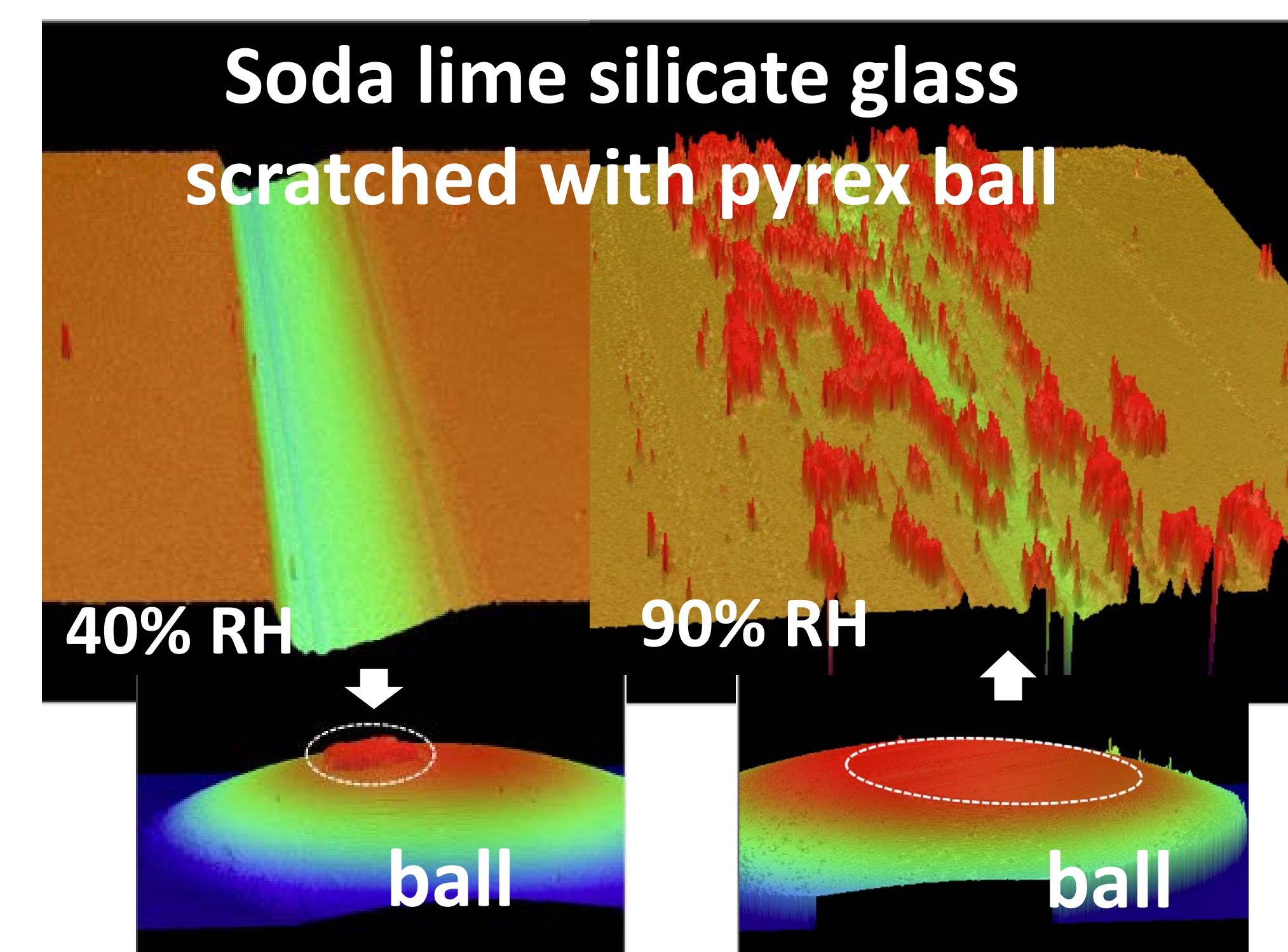
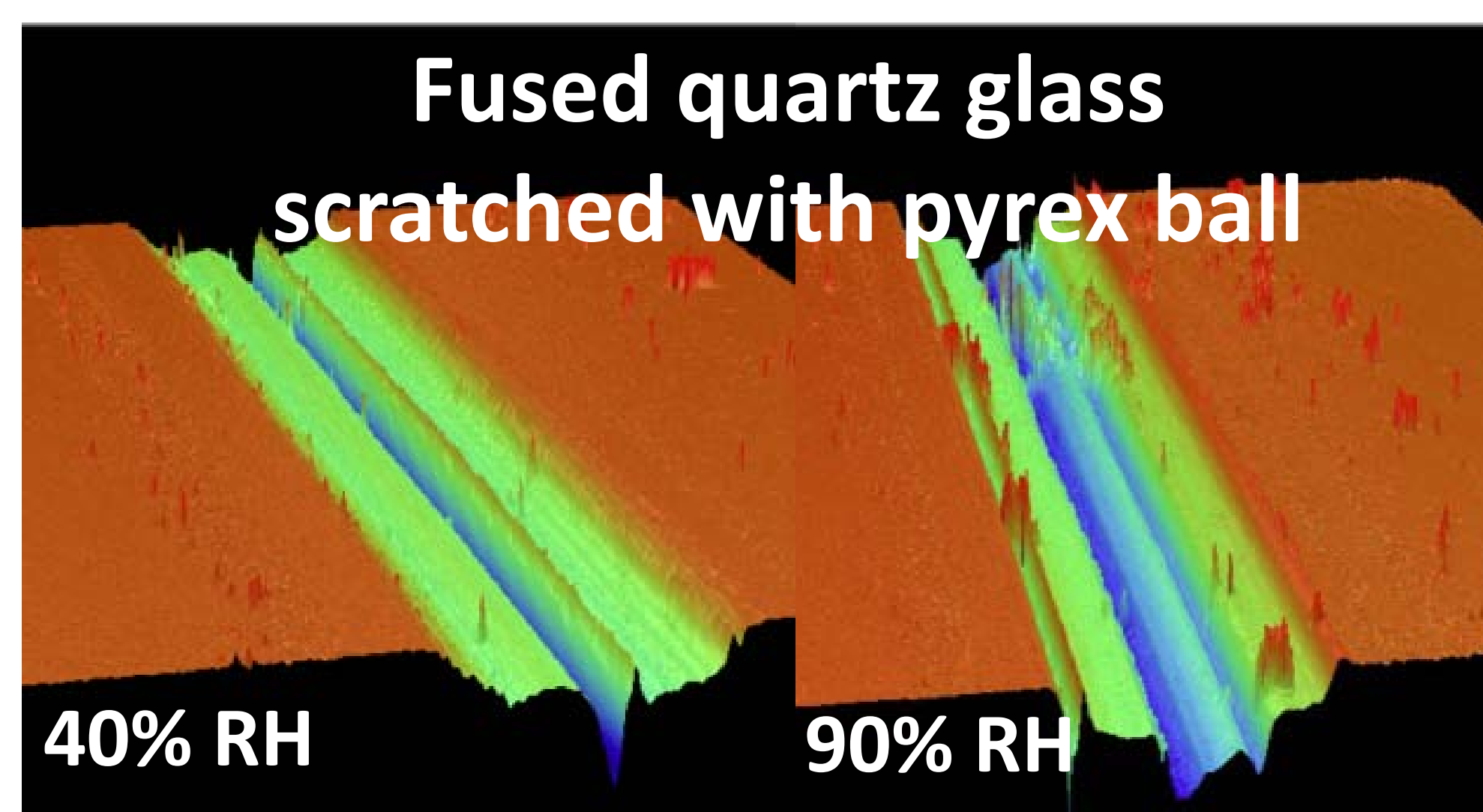
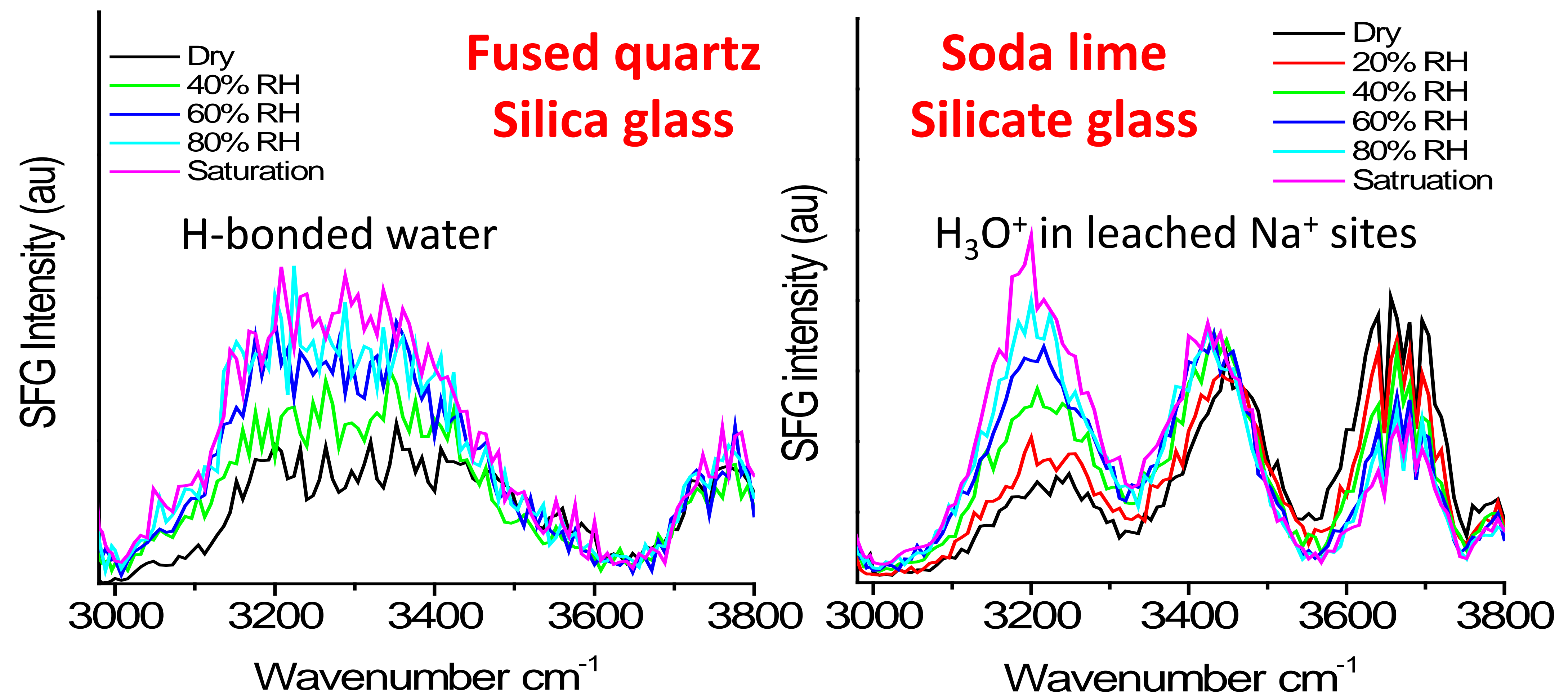
- 1. Alkali ions**
- 2. Strain in Si-O-Si network**

**Hypothesis**

Affect interfacial water structure & thickness?

**Govern surface reactivity & mechanical property of glass**

**Sum-frequency-generation (SFG) vibration spectroscopy of water adsorbed on glass exposed in humid ambience**



2 undergraduate students (Laura Bradley & Zach Dilworth) worked on this project through REU support from IMI-NFG (NSF DMR-0844014)