

Seong H. Kim & Carlo G. Pantano, Pennsylvania State University **NSF Award #: DMR-1207328**

Surface composition of multicomponent glass

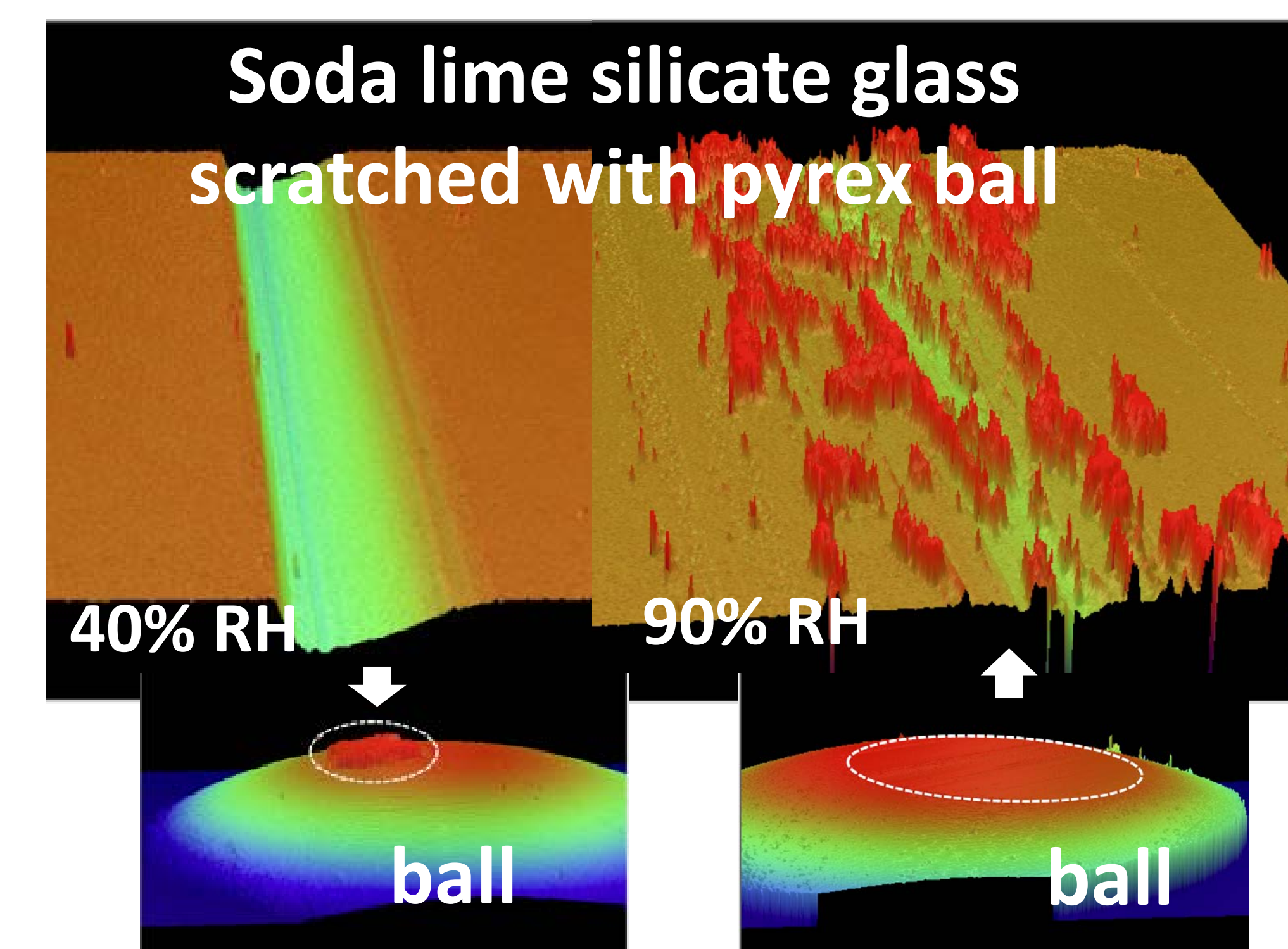
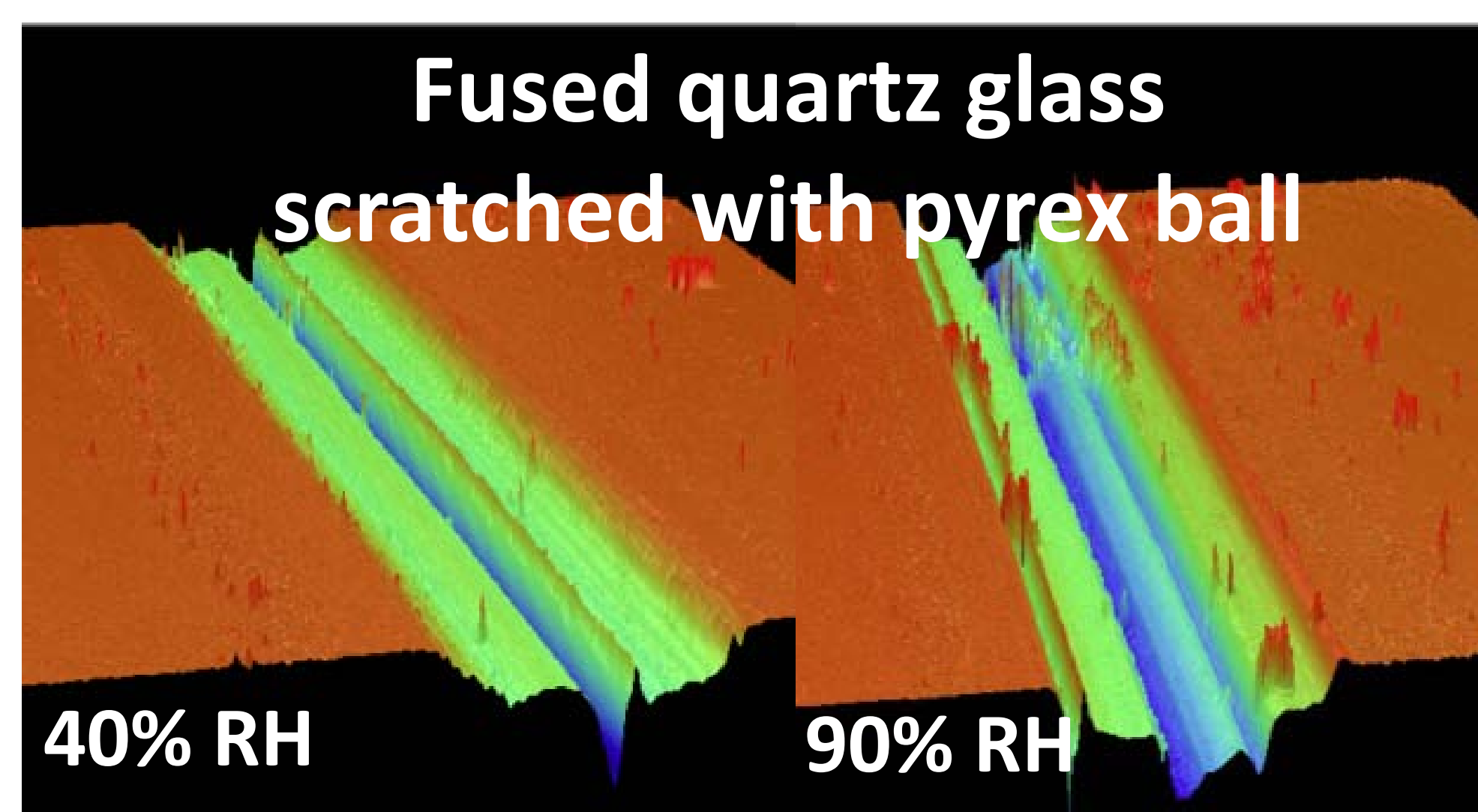
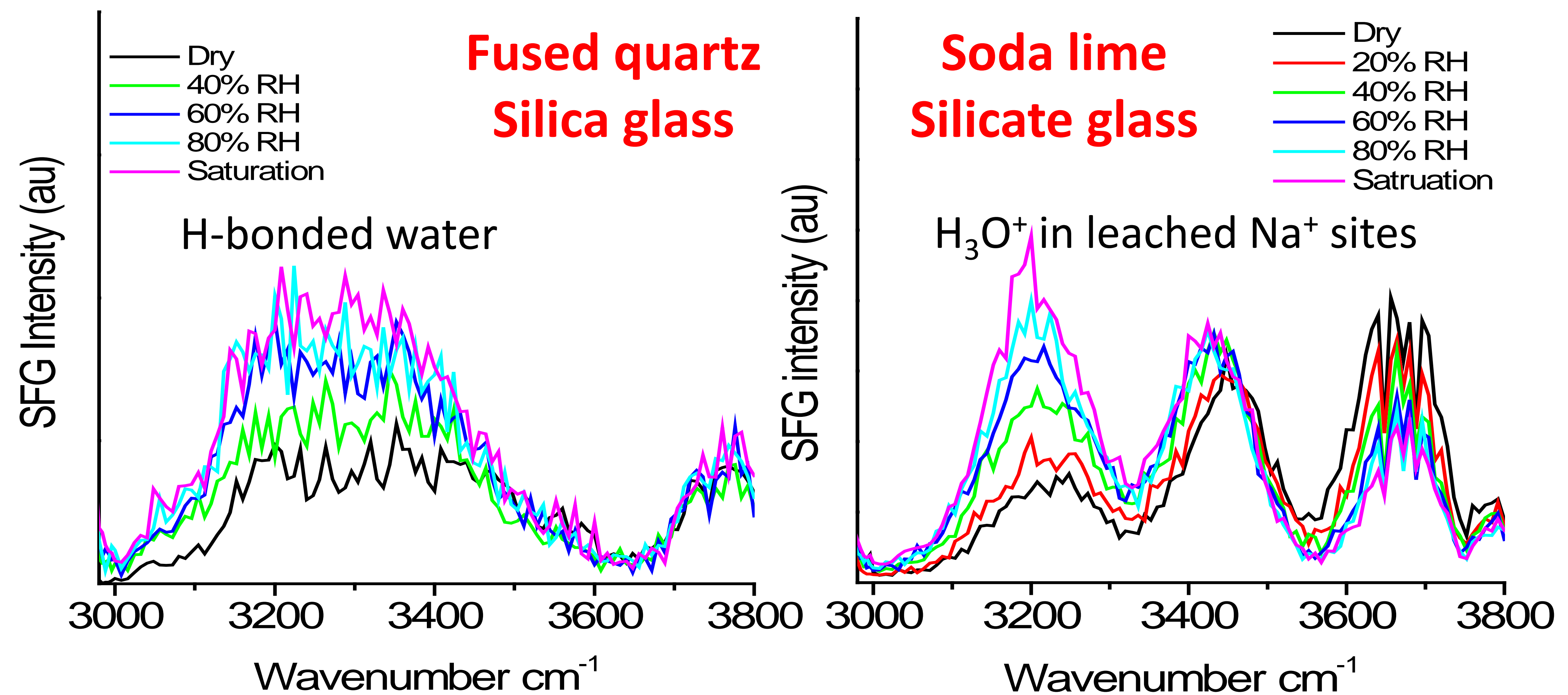
- 1. Alkali ions**
- 2. Strain in Si-O-Si network**

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)