

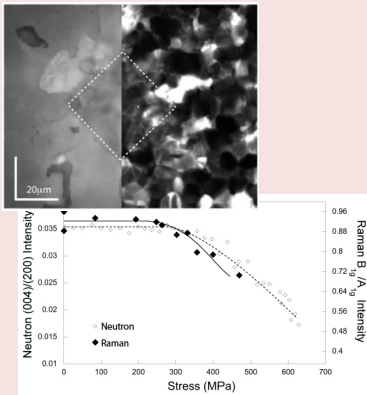
# Molly M. Gentleman

Asst. Professor, SUNY Stony Brook

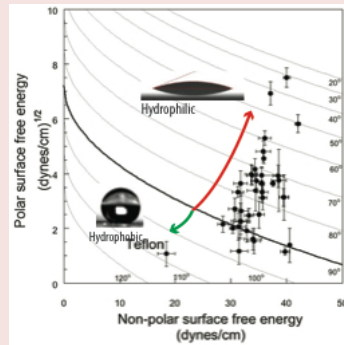


## Primary Research Interests:

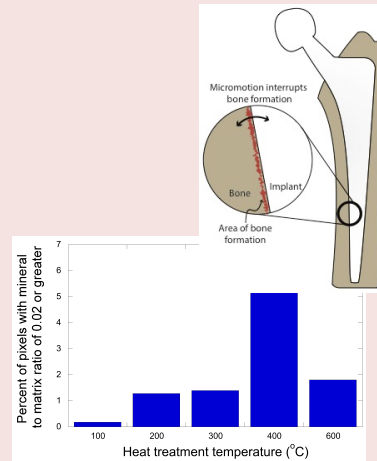
### Ferroelastically toughened ceramics



### Hydrophobic ceramics

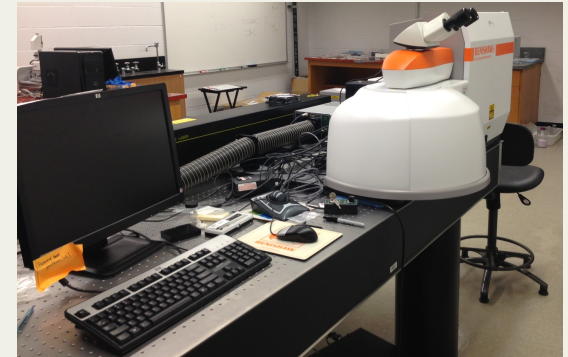


### Bioceramics



## Unique Capabilities:

### Raman Spectroscopy



### Lasers:

325nm, 457nm, 488nm, 514nm, 785nm

### Temperature/Pressure:

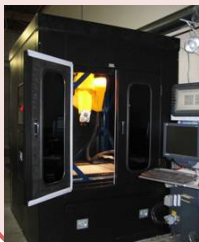
1500 °C in atmosphere  
600 °C at 6 GPa

### Center for Thermal Spray Research

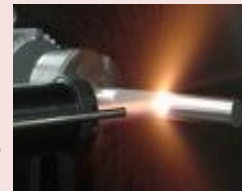


APS, Triplex, HVOF, HVOF, Flame spray  
Vacuum plasma spray, direct write

## Primary Broader Impact Activity:



Spraying Learning and Teaching Center at SBU  
K-12 field trips that take advantage of the visually compelling nature of thermal spray to excite students about STEM fields



## Interest in New Collaborations:

Characterization of functional oxides