

### Agenda- June 20<sup>th</sup>, 2025

June 20 <sup>th</sup>	Zoom: on request
	Room: Duke 345, 09:00 – 12:30
9:00 – 9:05	Welcome – <b>Brigid Mullany</b>
9:05 – 9:45	<b>Russell Maier (NIST)</b> – “Metrology of Advanced Ceramic Processing and Manufacturing at NIST”
<b>Start Technical Session</b>	
9:45 -10:00	Faculty capabilities & interests (3 minutes for 3 slides) <ul style="list-style-type: none"> <li>• <b>Youxing Chen</b></li> <li>• <b>Lynnora Grant</b></li> <li>• <b>Cheryl Xu</b></li> <li>• <b>Roger Tipton (given by B Mullany)</b></li> <li>• <b>Brid Mullany (time permitting)</b></li> </ul>
<b>Break (10:00 – 10:10)</b>	
10:10 - 11:40	Graduate student project updates 10 minutes +5 Q&A <ul style="list-style-type: none"> <li>• <b>Anand Rathnam</b> – “Updates on Ceramic Flexures”</li> <li>• <b>Aidan Restelli</b> - “Additive Formation of Ordered Ceramic Nanocomposites Using Selective Laser Melting”</li> <li>• <b>Tien Herd</b> - “Influence of resin on stereolithography with silicon carbide”</li> <li>• <b>Anasheh Khecho</b> - “Direct Ink Writing of SiC-Fe<sub>3</sub>O<sub>4</sub>-Polymer Nanocomposites”</li> <li>• <b>Taylor Barrett</b> - “Assessment of the Grindability of RoboCast Silicon Carbide”</li> <li>• <b>Necati Ucak</b> – “High-speed machining (milling) of wrought and additively manufactured (AMed) inconel 718 alloy using ceramic tools”</li> </ul>
<b>Break (11:40 – 11:50)</b>	
11:50 - 12:00	New graduate/undergraduate student introduction (5 minutes for 3 slides) <ul style="list-style-type: none"> <li>• <b>Niko Brown, Maddy Drumheller, &amp; Jasmine Jacobo-Martinez</b> – “Ceramic AM – key process parameters”</li> <li>• <b>Protanu Beanerjee</b> – “Evaluating coherent scanning interferometry for defect detection in ceramics”</li> </ul>
12:00– 12:30	Informational/Discussions: <ul style="list-style-type: none"> <li>• Insights on DoE funding opportunities- <b>Cheryl Xu</b> (Research Fellow, Dept. of Energy)</li> <li>• Other funding considerations - <b>Brid Mullany</b></li> <li>• ACerS funding opportunities for students - <b>Lynnora Grant</b></li> <li>• Ceramics AM – intersection points with MEES curriculum – Who is teaching what? Fill in the poster boards</li> </ul>