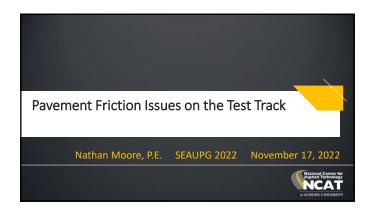
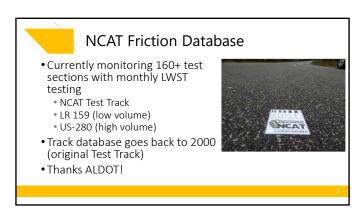
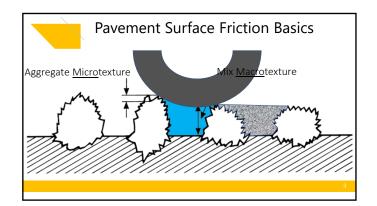
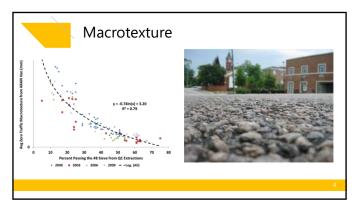
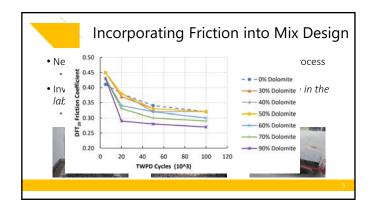
Raleigh, NC

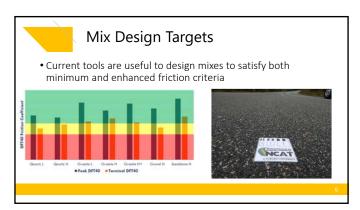


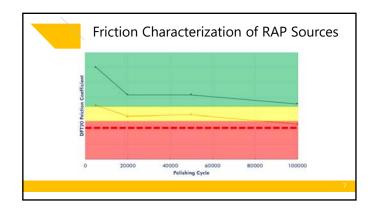


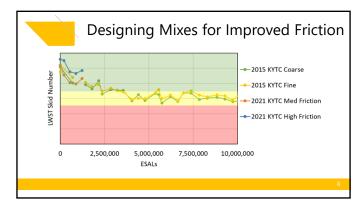














LMLC vs. PMLC Slabs & DFT

• Three examples of using friction in mix design on 2021 Track

• Testing representative mix and not aggregate characteristics

• More representative of what is actually in the field

Mix	LMLC DFT ₆₀	PMLC DFT ₆₀	Difference
#1	0.38	0.34	-0.04
#2	0.43	0.41	-0.02
#3	0.35	0.38	+0.03



Performance vs. Aggregate Quality

- Specifying performance allows for:
 - Innovation
 - Sustainability
- Fewer surprises • More representative of what is actually in the field
- Specify friction performance criteria instead of quarry qualification (one day...)



Test Track Safety Research Practical and representative safety thresholds a Maria de Cara de Car Cara de Cara d • Informative and implementable results 5,000,000 10,000,000 15,000,000 20,000,000 • Results without agency Equivalent Single Axle Loadings (ESALs) liability



Moving Forward/Research Needs

- What affects microtexture? How can a mix designer be confident in their mix?
- Link Test Track results to varying levels of traffic on open roads
- Link Test Track results to TWPD cycles to better understand polishing for friction demand

