

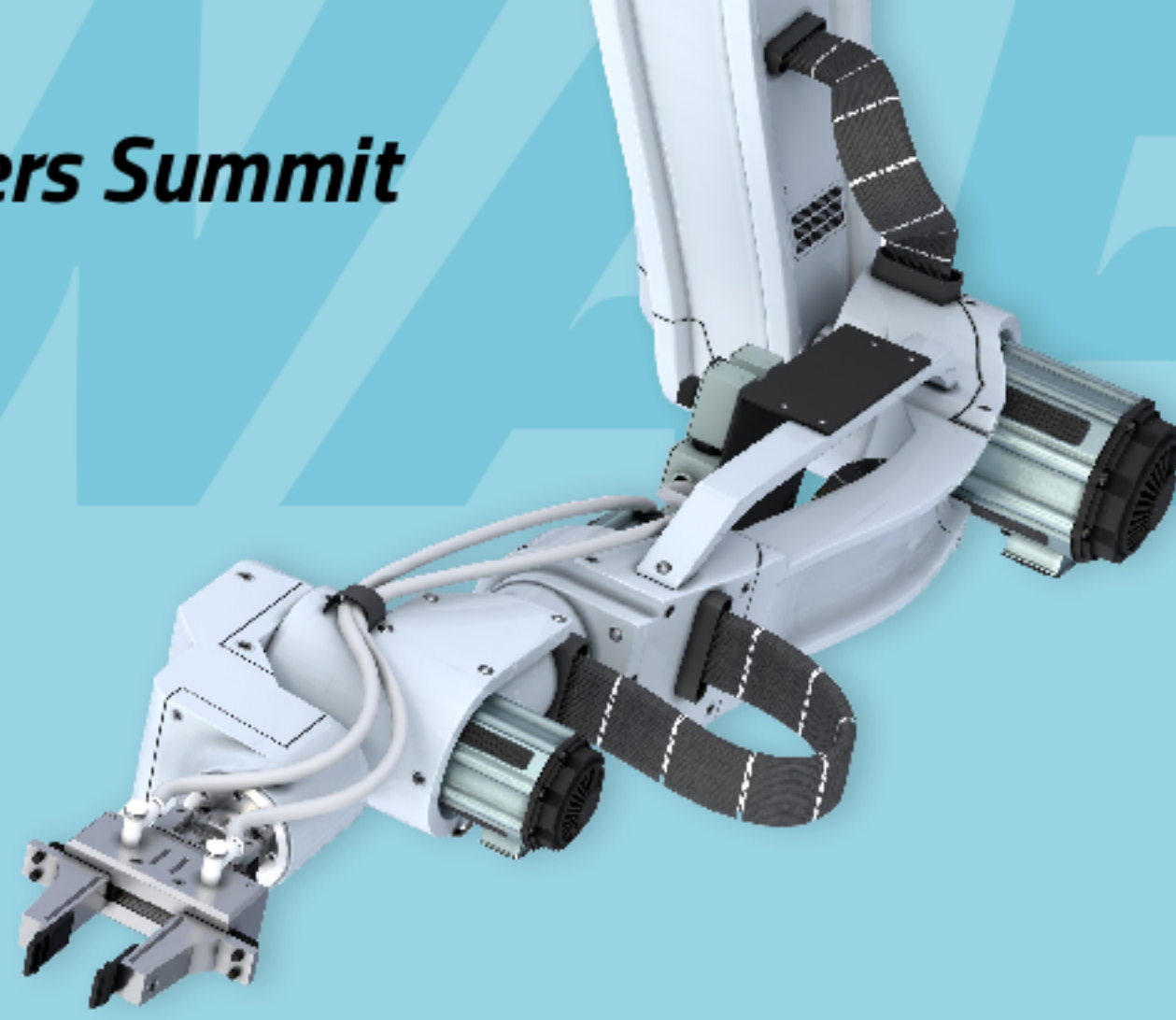
FUTURE FORWARD

Disrupting in a Time of Uncertainty

MAY 11-13, 2021

NMMS 2021
NATIONAL MBE MANUFACTURERS SUMMIT

MINORITY BUSINESS DEVELOPMENT AGENCY
ADVANCED MANUFACTURING CENTER
U.S. DEPARTMENT OF COMMERCE
Operated by Georgia Tech



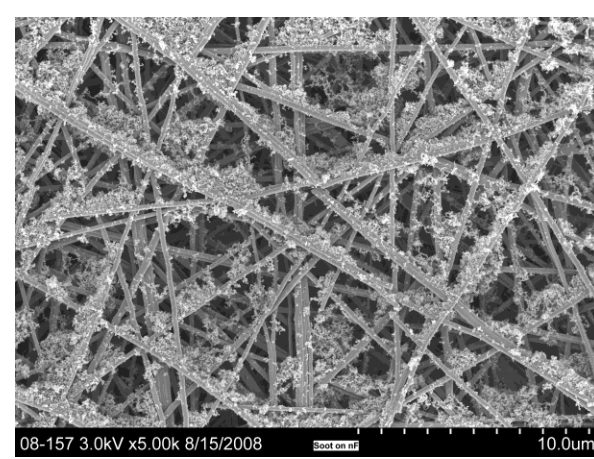
Overcoming Disruption

HVAC Filtration: Energy Efficiency/Indoor Air Quality

Problem

- Large Operation and Maintenance Cost associated with HVAC Air Filtration In buildings
- Poor Indoor air quality
- Transmission of microorganisms via aerosols from area to area

Contaminated Air
Aerosol, fine dust
Microorganisms
Weld fumes, Oil mist

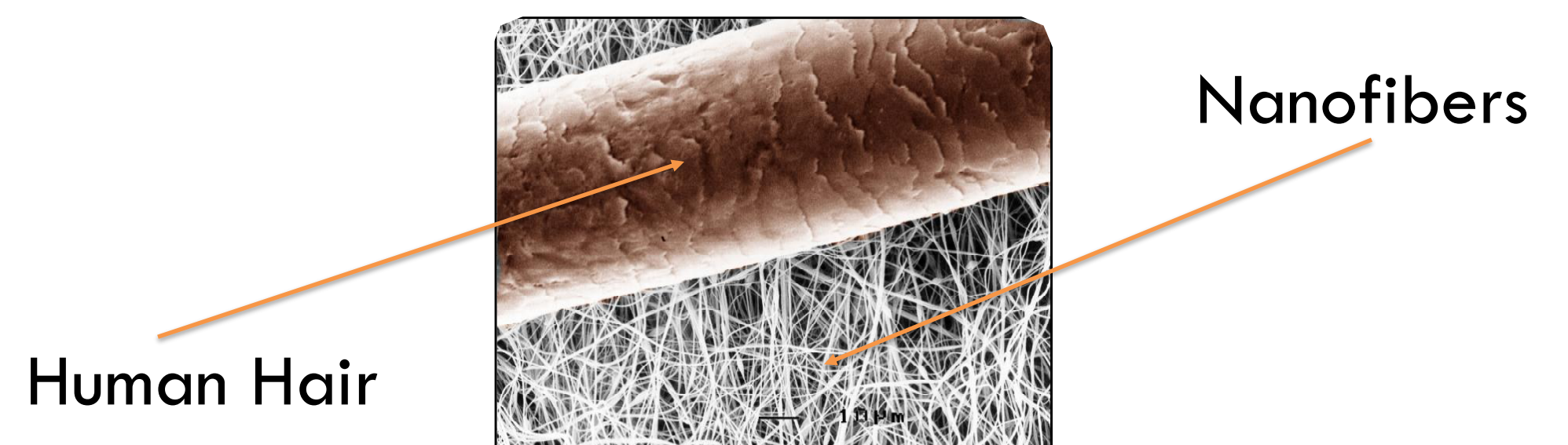


Clean Air Market
Commercial buildings
Healthcare
Manufacturing Plants



Process

- Develop nanofiber filter media
- Nanofibers are effective at
 - Lowering air flow restriction (ΔP)
 - High-capacity aerosol loading
 - High filtration efficiency
 - High throughput production
 - Cost effective



Solution

- High-capacity low (ΔP) HVAC air filter
- High capacity \rightarrow Longer filter service life, reduced labor, lower life cycle cost
- Pay Back (months) ~ 6
- Saving/Investment $\sim 0.2+$



exceed™
with nanofibers

Our Company

- Small Manufacturing business
- State of the art machinery
- Short lead time
- Based in Chattanooga, TN
- NMSDC certified
- GSA Contract holder

eSpin
Nanofibers for a Better World®

