AEGIS TECHNOLOGY, INC.

Case Study
Research and Development in Nanomaterials

CUSTOMER: U.S. Department of Defense (DoD)
CONTRACT #: W911SR-09-C-0030
PROJECT NAME: SBIR Project, "Low Cost Method for Metal Nano-Coating of Anisotropic Carbon Fibers"
PROJECT DURATION: 2009-2010

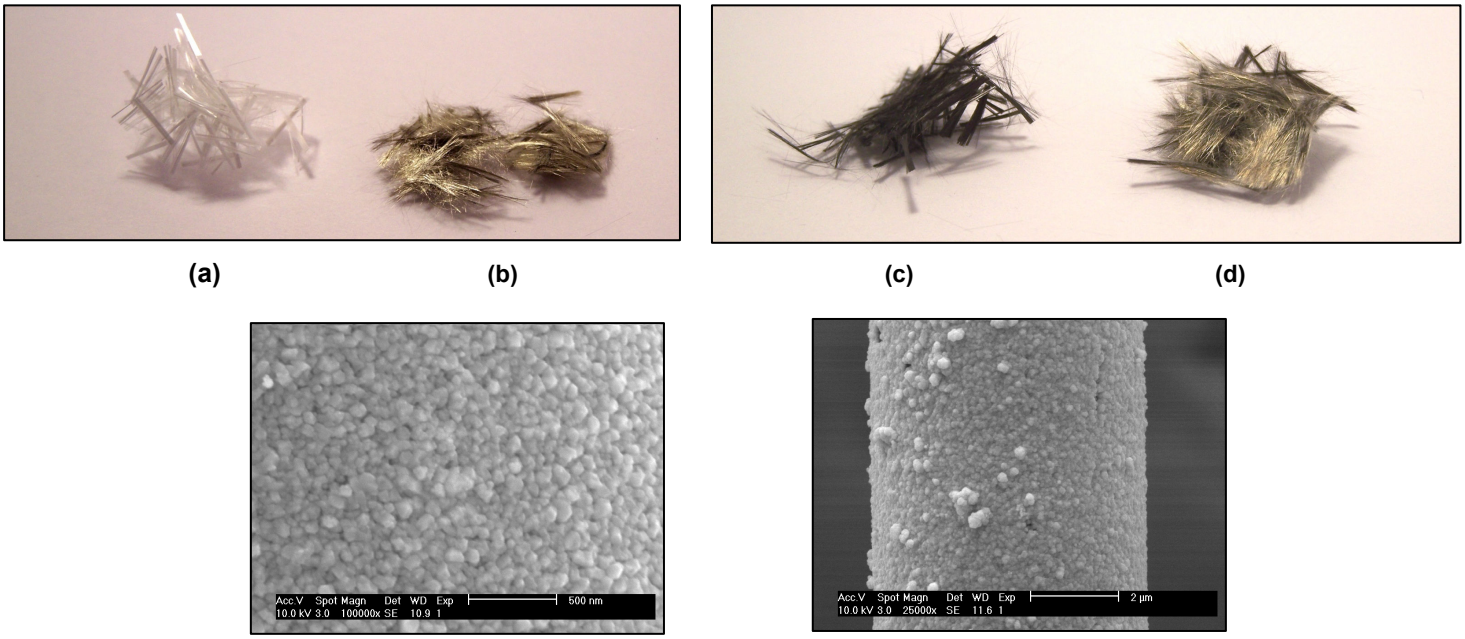
OVERVIEW

The US Department of Defense solicited a SBIR/STTR request for proposal (RFP) for the design and development of metal nano-coatings on carbon fibers. These coated carbon fibers can be used as a microwave obscurant for aerosols in military applications. Aegis Technology was awarded the project in 2009 and completed the project in 2010.

DELIVERABLES

Aegis Technology delivered several types of coated fibers. In the process, Aegis Technology conducted:

- Processing
- Scanning Electron Microscope (SEM) Characterization
- Energy-dispersive X-Ray Spectroscopy (EDS)



(a) **(b)** **(c)** **(d)**

(e) **(f)**

(a) Uncoated Glass Fiber, (b) Silver nano-coated glass fiber, (c) Uncoated Carbon fiber, (d) Silver nano-coated carbon fiber, (e) SEM image of silver nano-coating on glass fiber, (f) SEM image of silver nano-coating on carbon fiber

CONTACT

For more information, please contact:
Dr. Timothy Lin, Technical Director, Aegis Technology Inc.
(714) 554-5511
timlin@aegistech.net
www.aegistech.net