NANOFAB ADVANCED MANUFACTURING

CNST Center for Nanoscale Science & Technology

Conformal Parylene Coating for Critical Semiconductor Components

PROJECT LEADER: Steve Neely (Vertical Solutions, Inc.)

COLLABORATOR: William Young (NIST)

GOAL

To develop a deposition process for evenly distributing a thin conformal coating of translucent parylene over non-planar surfaces.

KEY ACCOMPLISHMENTS

Developed processes for thin (1 µm to 20 µm) conformal coating of translucent parylene.

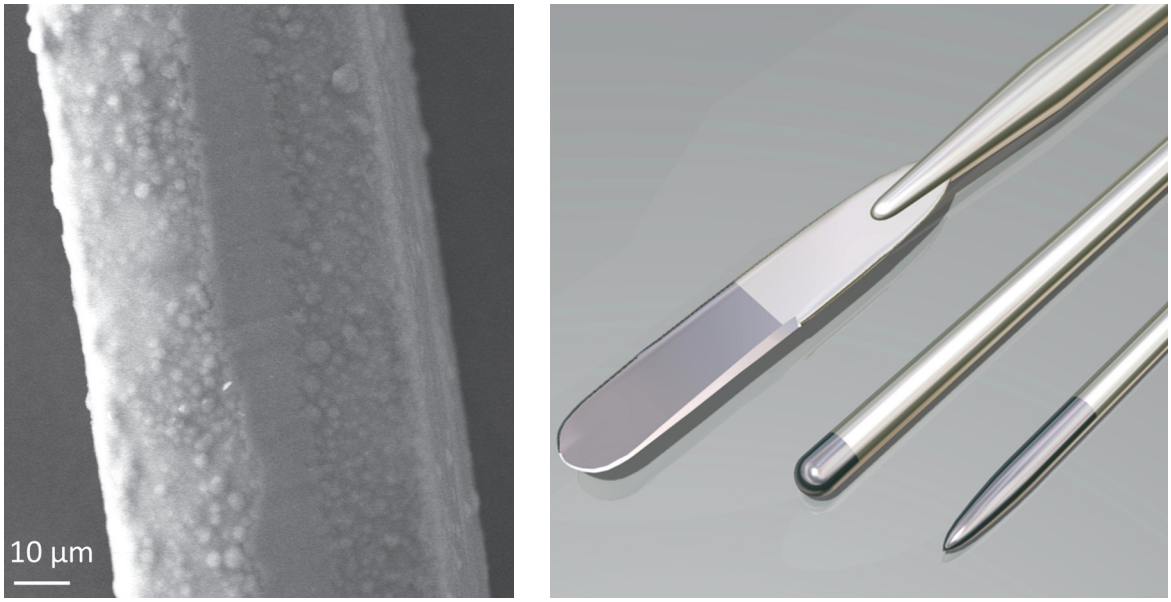
Created a new set of products built around the coating's high dielectric strength and low mechanical and thermal stress.

Transitioned the process in-house; opened a new division with 12 full-time employees.

KEY NANOFAB PROCESS

Parylene process.

Scanning electron micrograph of an electrical probe coated with translucent parylene and a photograph of coated medical tools.



REFERENCE

http://www.vsolutionsinc.com/Parylene.Coating.html