



# Press Release



**November 2009**

## SMI announces DOE Phase I SBIR award to develop high efficiency Inline Tape MOCVD Tool for Superconducting Tapes.

Structured Materials Industries, Inc. (SMI) announced that it has received SBIR Phase I funding from the Department of Energy to develop an "Ultra-Efficient YBCO Tape Production Tool". SMI will collaborate with Metal Oxide Technologies, Inc. (MetOx) in this SBIR program to develop an ultra-fast and ultra-efficient MOCVD tool for continuous production of superconducting tapes. The resulting tool will provide for very low cost production, as well as for maximum process flexibility to produce YBCO tapes with optimum properties for DOE objectives and other commercial applications. This program will build on existing technology which has been developed at SMI and at MetOx. SMI is a technology leader in the development of MOCVD systems for advanced oxide thin film materials. SMI has already developed reel-to-reel MOCVD technology, specifically for YBCO coated tapes. MetOx has developed cost-effective technology to produce second generation YBCO coated conductors, including all buffer layers and superconducting layers by MOCVD. Phase I will focus on development of the modeling tools and the system design. In Phase II, SMI will build the prototype system and produce sample quantities of superconducting tapes.

Structured Materials Industries, Incorporated is a leader in advanced and custom Chemical Vapor Deposition (CVD) tool and related technologies. SMI offers for sale: systems, components, materials, and process development services. SMI has an in-house applications laboratory featuring multi-reactor deposition systems and analytic capabilities, has developed a range of strategic partnerships to develop and implement MOCVD technology and looks forward to continuing to grow and expand upon mutually advantageous relationships.

### **Contact Information**

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