## U.S. DEPARTMENT OF ENERGY SMALL BUSINESS INNOVATION RESEARCH PROGRAM AND SMALL BUSINESS TECHNOLOGY TRANSFER PROGRAM FY 2006 PHASE I AWARDS

## TOPIC: NUCLEAR PHYSICS PARTICLE AND RADIATION DETECTION SYSTEMS, INSTRUMENTATION AND TECHNIQUES

Fairfield Crystal Technology, LLC 8 South End Plaza New Milford, CT 06776-4200 Large Diameter Zinc Selenide (ZnSe) Single Crystals for Radiation Detectors

This project will develop crystal growth technology for ZnSe-based devices used in radiation detectors and nuclear imaging. Applications include security screening, as well as medical, dental, and industrial imaging. Additional usage may be found in the formation of blue and white LEDs and blue laser diodes for optical storage