



Media Contact
Donna Goldman
dgoldman@inradoptics.com

Inrad Optics Receives SBIR Phase I Funding from the Department of Energy to Develop Scintinel™ Stilbene Arrays for Portable Neutron Imaging

NORTHVALE, NJ, USA July 14, 2020 – Inrad Optics, a leading US-based manufacturer of crystalline materials, optical components and photonic devices, received a Phase I Small Business Innovation Research (SBIR) award from the US Department of Energy (DOE) to support development of neutron imaging technology.

The detection and imaging of neutrons is a critical capability for nuclear nonproliferation applications that require identification of plutonium and uranium. There is growing interest in fieldable, pixelated fast neutron detectors which permit gamma discrimination. Additional applications exist in research, nuclear power, and nuclear security. Scintinel™ stilbene, an organic scintillator produced by Inrad Optics, exhibits superior performance for neutron detection and has been used successfully by researchers in academia, industry, and national laboratories. SBIR funding from DOE will facilitate new applications in neutron imaging through the development of pixelated stilbene arrays coupled to silicon photomultipliers (SiPMs).

“We are continually inspired by innovations our customers have demonstrated using stilbene,” said Dr. Candace Lynch, Director of Crystal Growth. “We are grateful for this support from DOE and are excited to develop pixelated stilbene arrays to meet the needs of our customers investigating neutron imaging technologies.”

Inrad Optics is exhibiting at the OSA Frontiers in Optics and Laser Science APS/DLS (FiO + LS) [virtual exhibition](#) September 14 - 17. Please visit and connect with us.

About Inrad Optics

Inrad Optics is a manufacturer of exceptional quality crystalline materials and devices, fabricated high precision glass, and metal optical components. Originally founded as Interactive Radiation in 1973, Inrad Optics is a globally recognized brand of optical solutions. Vertically integrated, manufacturing expertise includes solution and high temperature crystal growth, extensive optical fabrication capabilities, including precision diamond turning and the handling of large substrates, optical coatings and extensive in-process metrology.