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EyeMarker Systems showcases technology

EyeMarker Systems' OSI Instrument provides rapid, noninvasive measurement of specific physical anomalies (biomarkers) in the eye and extrapolates these findings to evaluate the potential health impact to the entire body. Currently calibrated to test for a variety of toxins, including nerve agents, botulinum toxin, cyanide and carbon monoxide, the instrument has particular applications in the military and homeland security environmentalism as well as for public health and safety first responders, such as firefighters and

emergency medical personnel.

"Biomarkers are not new, but it is truly innovative to noninvasively diagnose and monitor presymptomatic medical conditions with untrained individuals," said Wes McGee, CEO of EyeMarker Systems.

The device is remarkable for three advantages, McGee said. First, the examination and diagnosis can be performed by an untrained individual. Second, results take less than two minutes. Third, the instrument is small enough to be held in one hand. The device replaces existing technology and redefines the possibilities of rapid detection and treatment.

"To date, most exposure diagnostics require invasive action, specifically a blood draw, and take 24 hours or more to receive results," McGee said. "For firefighters

and military personnel exposed to certain toxins, those 24 hours could be the difference between life and death."

EyeMarker has been awarded multiple patents in image acquisition, operating systems, diagnostic algorithms and processes. Additional patent applications are submitted as work continues. Field trials have begun with both public and private groups. These include testing populations for toxins in Alaska and West Virginia, as well as fire department studies for firefighter exposure to carbon monoxide and cyanide in the field. EyeMarker has worked with the WVU Small Business Development Center and the West Virginia Development Office.