



Media Contact:

Georgina L. Chapman

Bid & Proposal Analyst

Business Development

AEgis Technologies Group

256-922-0802 ext. 1588

[gchapman@AEgisTG.com](mailto:gchapman@AEgisTG.com)

[www.AEgisTG.com](http://www.AEgisTG.com)

For Immediate Release

### **AEgis Technologies Awarded SBIR Contract for New Laser Eye Protection Technology for Visors**

**Huntsville, Alabama, and (March 3, 2010)** – The AEgis Technologies Microsystems Group has been awarded a Small Business Innovative Research (SBIR) contract for New Laser Eye Protection Technology for Visors with the United States Air Force.

Led by AEgis Chief Scientist Dr. Milan Buncick, the work will be executed by team members Neset Akozbek, Research Physicist, and Carlos Kengla, Biomedical Engineer. Fabrication and testing will be conducted at AEgis and The University of Alabama in Huntsville. AEgis has a joint partnership with UAH to develop nanophotonics.

“This technology offers protection for helicopter pilots, anybody who flies close to the ground and is exposed to laser threats,” said Dr. Milan Buncick. “We hope in the long term to exploit additional properties of these film stacks to add additional protection for high energy lasers.”

Laser eye protection has become increasingly important due to the availability of laser sources (continuous and pulsed) over a broad range of wavelengths. This is particularly the case where table top femtosecond laser pulses (~50femtoseconds) with peak powers reaching the Terawatt scale are commercially available in the visible and near infrared. The military uses many laser systems (e.g., training devices, range finders, target designators, communications devices) that emit potentially eye damaging radiation. Because of personnel risk exposure to these devices, a growing need exists for eye protection at a variety of wavelengths for both CW and pulsed sources.

The objective of this project is to develop transparent metallo-dielectric multilayer stacks that function as a laser eye protection coating. AEgis Technologies is designing and constructing multilayer stacks that provide a high transparency window in the visible spectrum but block UV and IR light. These coatings will have sufficient optical density to protect the eye from damage by laser radiation in the UV and IR spectral regions. As part of the SBIR Phase I effort, AEgis built and tested these stacks on both rigid and flexible substrates in order to provide a wide variety of protection applications. During the

(more)

SBIR Phase II work AEgis will partner with Revision Eyewear of Essex Junction VT for testing and development of manufacturing processes for incorporating this technology into military eyewear.

**About AEgis Technologies Group**

AEgis is a privately held small business corporation headquartered in Huntsville, Alabama, that provides advanced technology and expert consulting services to industries throughout the world. AEgis capabilities include Modeling & Simulation software development, training, test support, engineering analysis, hardware design and nanotechnology manufacturing for both government and commercial customers within the United States and internationally.

Since its founding in 1989, AEgis has been committed to honesty and integrity and has been recognized for its honorable business practices by recently receiving the Better Business Bureau's Torch Ethics Award. The company's highly skilled work force is dedicated to building lasting relationships and providing superior products and services to our customers.

To learn more about AEgis, please visit [www.AEgisTG.com](http://www.AEgisTG.com).

####