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AGY Presents Technical Paper on S-2 Glass[®] Armor Systems

Aiken, South Carolina, March 30, 2004 – AGY today announced the presentation of a paper at the annual European SAMPE technical conference about the use of *S-2 Glass* products in composite armor applications. The conference is being held this year in conjunction with JEC 2004 in Paris, March 30-April 1.

Titled *The Synergistic Roles of High Strength Glass Composite and Alumina Ceramic Facing in Lightweight Composite Armor Against Armor Piercing Projectiles*, the paper covers the mechanisms and roles of both the *S-2 Glass* composite and the alumina tiles of a ceramic-faced composite armor system in defeating an armor-piercing round. A predictive model for the ballistic protection behavior of a ceramic-faced fiberglass composite armor system will be presented and validated with experimental data.

The authors of the paper are David Fecko, P. Douglas Lyle, and Dennis Murray. All three are members of the technical staff at AGY.

“Composite materials display an exceptional energy absorption capacity when compared on the basis of weight with monolithic systems,” says Fecko. “However, the penetrating capabilities of modern armor-piercing projectiles are known to overwhelm fabric-based composite armor, necessitating the addition of a hard material to face the armor.”

“The resulting system can be viewed as macro-composite in which each component of the system has a role in defeating the threat,” continues Fecko. “Our paper and presentation will discuss the mechanisms for defeating an armor piercing projectile threat using ceramic-faced fiberglass composite armor.”

AGY is a leading global producer of fiberglass yarns and high strength fiberglass reinforcements used in a wide variety of composites applications. Headquartered in Aiken, SC (USA), AGY has a European office in Lyon, France, and manufacturing facilities in Aiken, SC, and Huntingdon, PA. Additional information may be found at the company’s website, www.agy.com, or by email at info@agy.com.

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