

FOR IMMEDIATE RELEASE:

Contact: Erin Benton
ebenton@genaero.com
469.568.2376

**Geneva Aerospace extends its flight technologies
to ultra-light glider developed by Raspet**
UAV will stay aloft 24 hours, serve as sensor platform for military

CARROLLTON, Texas – November 22, 2005 – Geneva Aerospace,[®] Inc. has been contracted to help develop a revolutionary new class of unmanned aerial vehicle (UAV) – a glider that will stay aloft for more than 24 hours.

Geneva is contributing the command and control package for the glider project, which is under development at Mississippi State University's Raspet Research Flight Laboratory. The UAV project is sponsored by the U.S. Army's Space Missile Defense Command in Huntsville, AL.

Flight controls for the UAV will be based on Geneva's *flightTEK*[®] flight control computer, which transforms air vehicles into highly autonomous and precise unmanned machines. Originally designed for use in traditional fixed-wing UAVs, today *flightTEK* is being integrated into a wide range of vehicles, including both seaplanes and airships.

The glider UAV used in this project is designed to be lighter and stronger than most existing models, enabling it to maintain longer flight duration while costing less for the military. The glider has a wingspan of approximately 40 feet and a weight of less than 200 pounds without payloads.

The plane's flexible design will enable it to carry either infrared or electro-optical sensors, as well as acoustic sensors with a 360-degree detection range. In the future, chemical and biological weapons sensors may be installed, as well.

Developers intend to initially operate the glider UAV at altitudes of sea level to 12,000 feet and migrate the UAV to higher altitudes. "A small engine will keep it aloft when needed, but most power will be provided by thermal updrafts and other atmospheric winds," said John Johnson, senior program engineer at Raspet. Ground testing is expected to be completed this year, with flight tests planned for 2006.

"Raspet is nationally recognized for its design and development of high-performance sailplanes and full-scale turbine-powered aircraft," said Dave Felio, president and chief executive officer for Geneva. "It's a great opportunity for Geneva to work with these leaders in aerospace research and extend our technologies to a new, highly advanced type of UAV."

flightTEK features Geneva's patent-pending Variable Autonomy Control System (VACS™) software, which runs on top of a variant of the real-time LINUX operating system. More than just an autopilot, VACS serves as a true mission management system.

flightTEK measures just 3.5 inches by 4.75 inches by 1.75 inches, yet includes a wide variety of input/output capabilities, including seven serial ports, 12 input and 12 output digital I/O ports, eight 14-bit analog channels, a 10/100 Mbps Ethernet port and eight pulse-width-modulated (PWM) ports. This enables *flightTEK* to interface with the vehicle's on-board sensors, mission payload, communication system, propulsion system and all control actuators, thereby eliminating the need for a separate mission computer.

In the glider UAV, *flightTEK* will provide the interface to all on-board systems. In addition, the *flightTEK* software will be modified to help keep the glider aloft using data on wind currents, thermal updrafts and general weather conditions.

"Geneva had everything we needed for this project right off the shelf," Johnson said. "They are very easy to work with and understand how they can effectively modify Geneva's existing solutions for the glider."

About Geneva Aerospace

Geneva Aerospace designs breakthrough technologies for unmanned aerial vehicles, providing unprecedented autonomy, precision and control. The firm has developed a portfolio of industry-leading products and services, including advanced flight control systems, communication systems, control stations, software and systems integration services. Based in Carrollton, which is just outside Dallas, Geneva's extensive client list includes the largest U.S. aerospace companies and government agencies. Learn more at www.genaero.com.

###