3D Flash LIDAR™ Technology for Highly Automated Driving (HAD) and Industry Applications

For Highly Automated Driving (HAD) and a variety of Industry based applications and automated functions to become a reality, reliable 3-dimensional imaging that accurately profiles the environment surrounding a vehicle is essential. Traditional sensors (radar, 2D, scanning LiDAR) do not have the angular resolution or robustness to perform precision 3D operations required for these types of activities.

Continental's ADAS Business Unit, Segment High Resolution Flash LIDAR (HFL) is readying its new, solid-state 3D Flash LIDAR technology as an automotive grade, production ready solution for both automotive and Industrial applications. Streaming accurate 3D information surrounding a vehicle, these 3D sensors can profile a road, sense other vehicles on the ground or in the air, accurately map a cellular tower or assist in agriculture or mining applications. This same technology is deployed on mission critical space applications and is ideal for use in these emerging highly automated applications.

Continental's solid state 3D Flash LIDAR sensors are the perfect enabler for a broad range of applications. They complement existing technologies such as radar and color cameras and are being developed and designed in Carpinteria, California.

The Carpinteria-based HFL Engineering team is comprised of dedicated teams working on software, electrical engineering, semiconductor design, laser & optics, mechanical and test & validation disciplines.

On Thursday, June 15th, @ 2:00 PM in the CS Conference Room (1132 Harold Frank Hall) Continental's Advanced LIDAR Solutions team will be presenting overview and demonstration of its 3D Flash technology.

The visiting team will include:

Fritz Krainer – Manager, Hardware Engineering
Guido Fuchs - Lead Algorithm Engineer
Winfried Reutlinger - SW Manager
Tom Laux - Business and Marketing Manager
Aaron Simon -- Test and Validation