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Cascade Technologies to speak at 2nd International Quantum Cascade Laser Workshop in Italy

Cascade Technologies, the world leader in the application of quantum cascade lasers, will attend the 2nd International Workshop on Quantum Cascade Lasers on September 6 in Italy to speak about its groundbreaking new technology.

Via a proof of concept, Cascade Technologies has demonstrated the potential of a real-time technology for the detection of vapour traces of explosives through its revolutionary use of quantum cascade lasers (QCLs).

This technology offers previously unprecedented levels of sensitivity and the ability to quickly analyse complex gases, whilst its highly portable and robust nature has opened up a number of new and previously unavailable areas of application.

Cascade will show a live demonstration of simultaneous, real time ambient air monitoring of air water and Nitrous Oxide, using Mid IR Quantum cascade lasers, at the upcoming workshop.

The instrument will be configured to demonstrate 300 Parts Per Billion of Nitrous Oxide along with 10,000 Parts Per Million of Water H₂O . Both are typical measurements in the atmosphere and by adding moisture will demonstrate changes to the water measurement while keeping the N₂O static.

The demonstration will showcase the key attributes of the technology developed by Cascade, including:

- Simultaneous measurements of different gases in a single instrument utilising a single laser
- A large dynamic range (from PPM to PPB),
- Low cross interference and unambiguous fingerprinting of multiple gases
- A small portable unit which operates at room temperature and uses no consumables.
- Applications vary from trace level emission monitoring to defence & security, explosive, chemical and narcotics detection and identification

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The top researchers in the field will be attending the International workshop to report on recent exciting developments and brainstorm on future developments of the technologies and applications of QCL's.

Erwand Normand – Chief Scientific Officer at Cascade Technologies, who will be speaking at the International workshop – says: “ We have reached a very exciting stage in the development of Quantum Cascade Lasers. Their shift out of the laboratory and into real world applications has been accelerated by the vast range of uses and markets for this technology.

“The potential for this technology is huge, it is already being used for emissions monitoring and can be applied to various other sectors including, security and defence, health and safety and medical diagnostics.”

The three day workshop will take place in the Grand Hotel Rosa Marina in Brindisi, Italy from September 6 -9.

Ends

Notes to editors

- **Cascade Technologies** uses its revolutionary, patented core technology – based around the application of Quantum Cascade Lasers – to design, develop and supply innovative solutions for a wide range of global markets. These include the monitoring of greenhouse and general industrial emissions, hazardous gases, and explosives and drugs.

Based at Stirling University Innovation Park, Cascade Technologies currently has world-class scientists and engineers working under development and supply agreements on several revolutionary products for key blue chip clients, whilst further bespoke product development, manufacturing, marketing and distribution agreements are being sought with customers worldwide.

The company's technology provides highly specific and sensitive measurement, whilst its portable size offers cost savings compared to competitive offerings. It is also immune to many outside influences that typically affect sensors of this type.

Issued by Beattie Communications (www.beattiegroupp.com) on behalf of Cascade Technologies

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