

The Manager

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## **VEECO INSTRUMENTS TO EVALUATE BLUGLASS' RPCVD p-GaN for LED and POWER ELECTRONIC APPLICATIONS**

### **Key Points:**

- Veeco to evaluate RPCVD grown p-GaN for power electronic and LED applications
- Veeco will provide 2" green multi-quantum well (MQW) wafers and 6" silicon HEMT wafers for RPCVD p-GaN overgrowth at BluGlass

Veeco has formally proposed to evaluate RPCVD p-GaN for use in both GaN on silicon HEMTs (high electron mobility transistors) for power electronic applications and green LEDs, following BluGlass' recent announcement of its improved RPCVD p-GaN performance data in February 2015.

This evaluation involves Veeco supplying MOCVD grown, partial LED and HEMT structures for BluGlass to overgrow with low temperature RPCVD p-GaN layers.

BluGlass announced in February that its RPCVD p-GaN (grown on MOCVD partial LED structures) was approaching the performance benchmark of full MOCVD LEDs grown in house by BluGlass, and provided its performance data to the industry. This data has led to this evaluation of p-GaN for both power electronic and LED applications to be undertaken by the two companies.

This evaluation will require significant development effort by BluGlass and could potentially involve multiple iterations. This agreement does not involve any transfer of intellectual property between BluGlass and Veeco, and does not entail any financial commitment by either party beyond their own costs of the evaluation. This agreement does not guarantee future commercial collaboration.

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### About BluGlass

BluGlass Limited (winner of the 2013 Australian Technologies Competition) is an Australian green technology company formed to commercialise a breakthrough in the Semiconductor Industry.

BluGlass has invented a new process using Remote Plasma Chemical Vapour Deposition (RPCVD) to grow semiconductor materials such as gallium nitride (GaN) and indium gallium nitride (InGaN), crucial to the production of high efficiency devices such as next generation lighting technology Light Emitting Diodes (LEDs) with advanced performance and low cost potential. The RPCVD technology, because of its low temperature and highly flexible nature, offers many potential benefits over existing technologies including higher efficiency, lower cost, substrate flexibility including GaN on silicon and greater scalability.

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### About Veeco

Veeco's process equipment solutions enable the manufacture of LEDs, flexible OLED displays, power electronics, compound semiconductors, hard drives, semiconductors, MEMS and wireless chips. They are the market leader in MOCVD, MBE, Ion Beam, Wet Etch single wafer processing and other advanced thin film process technologies. Their high performance systems drive innovation in energy efficiency, consumer electronics and network storage and allow their customers to maximize productivity and achieve lower cost of ownership. For information on our Veeco, products please visit [www.veeco.com](http://www.veeco.com).