

The Manager
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HC SEMITEK & BLUGLASS ENTER COLLABORATION TO EXPLORE RPCVD FOR MULTIPLE LED APPLICATIONS

Key Points:

- **BluGlass and HC SemiTek have commenced a collaboration to review RPCVD performance**
- **HC Semitek will evaluate two applications of RPCVD:**
 - **1) Low temperature p-GaN for Green LEDs**
 - **2) Aluminum Nitride on sapphire substrates for high brightness LEDs**

Australian technology innovator, BluGlass Limited (ASX:BLG) has today announced that it will commence a collaboration with HC SemiTek, a leading Chinese LED chip manufacturer that supplies full-color ultra-high brightness LED products throughout the Chinese market. BluGlass and HC SemiTek will collaborate to review the RPCVD advantages for green LEDs and will also explore low temperature deposition of Aluminum Nitride (AlN) to use in high brightness LEDs. The Chinese manufacturer will supply 4 inch wafers to BluGlass to deposit RPCVD films and HC SemiTek will then fabricate the LED devices for testing.

BluGlass is bringing to market a complementary technology for the manufacture of next generation lighting technologies in the multi-billion dollar light emitting diode (LED) market. The technology, called Remote Plasma Chemical Vapour Deposition (RPCVD) is a unique low temperature manufacturing platform. By growing critical semiconductor materials at lower temperatures, electronic manufacturers can produce higher performing devices such as LEDs and power electronics at lower cost. BluGlass holds a number of patents in key semiconductor markets including the US, China, Europe and Japan.

BluGlass Managing Director Giles Bourne said today *“It is fantastic to see the commercial interest building in the RPCVD technology capability. We now have three industry evaluations in place with companies that have respected leadership positions in their relative markets.*

This forms part of our key strategy to complete our industry acceptance phase as we progress towards commercialising our proprietary RPCVD technology.”

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This agreement is expected to take several iterations to demonstrate the performance capability, and will involve BluGlass' new RPCVD chamber designed to improve the uniformity of the RPCVD deposition. This chamber is expected to be commissioned in the coming months.

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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) and power electronics, 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 HC Semitek

HC SemiTek Corporation was established in 2005 at Wuhan, China and is a leading LED chip manufacturer committed to the development, production and sales of full-colour high efficiency LED epitaxial materials and chips. The company went public on Growth Enterprises Market in 2012 (Stock Code: 300323), and possesses world-leading research and development capabilities and mature production processes and continuous innovations that adhere to customers' demands.

en.hcsemitek.com