

17 June 2020

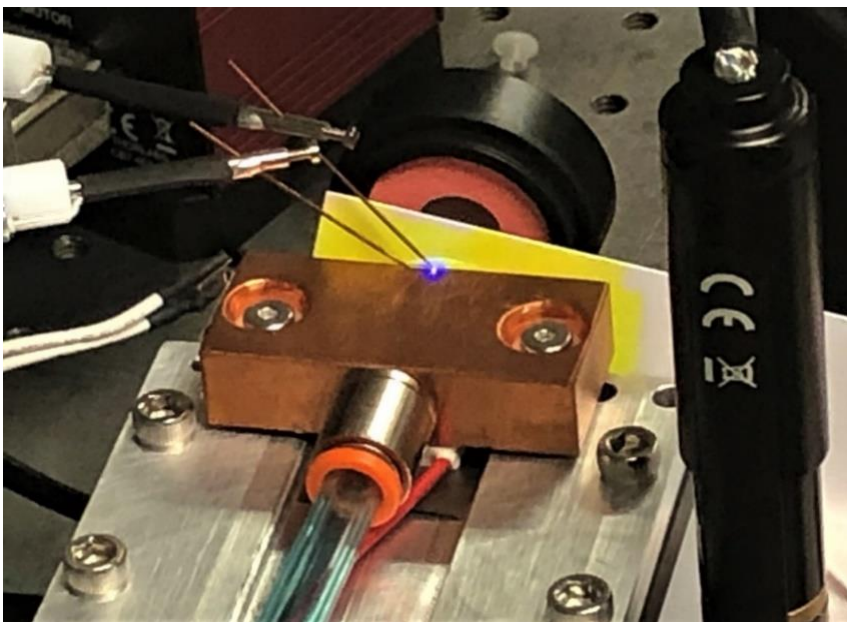
BluGlass Business Update

- **Laser Diode business update**
 - BluGlass has commissioned its laser diode test facility in the US
 - Experienced laser diode characterisation and testing expert joins the US team
 - BluGlass remains on track to deliver product revenues in early CY2021
- AIXTRON 2800 G4 retrofit assembly is now complete
 - Final commissioning underway in collaboration with equipment partner AIXTRON SE

Australian semiconductor technology developer, BluGlass Limited (ASX:BLG) is pleased to present this update on its direct-to-market laser diode business unit, laser diode product development and the AIXTRON G4 retrofit.

Laser Diode Test Facility

BluGlass has commissioned its laser diode test facility in New Hampshire, USA.



BluGlass laser diode chip test

The new facility was commissioned on time and is a key component of our product quality assurance activities. It will assess the quality, performance and characteristics of BluGlass laser diode products. The installed reliability ovens, burn-in rack and electro-optical, spectral and spatial characterisation capabilities will enable the accurate measurement of laser diode output power and lifetime performance. The new facility is already being used for R&D testing during product development and will ultimately enable fully automated testing of commercial volumes of the laser diode products.

BluGlass has hired an experienced laser diode characterisation and testing expert, based at the new facility, as the Company continues to enhance its people capabilities.

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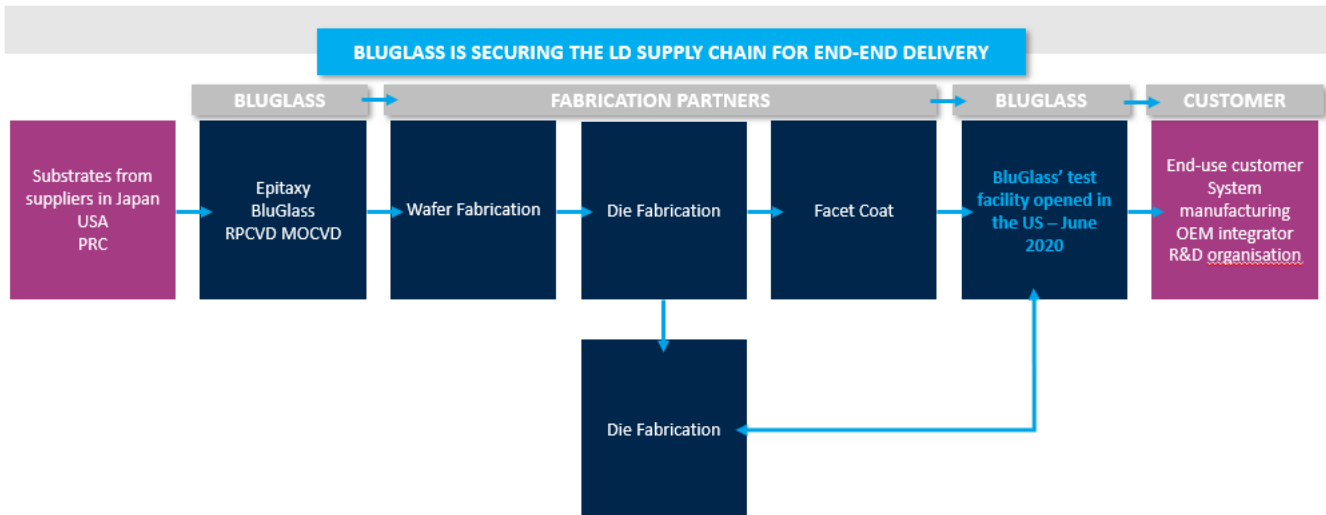
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Product Development

BluGlass continues to develop and strengthen our global supply chain by working with and qualifying multiple partners on the fabrication of laser diode devices. Our laser diode product development efforts remain on track to deliver test products by the end of CY2020, with customer revenues anticipated to commence early CY2021 (as per our published roadmap).

BluGlass Laser Diode Supply Chain – Direct to Market





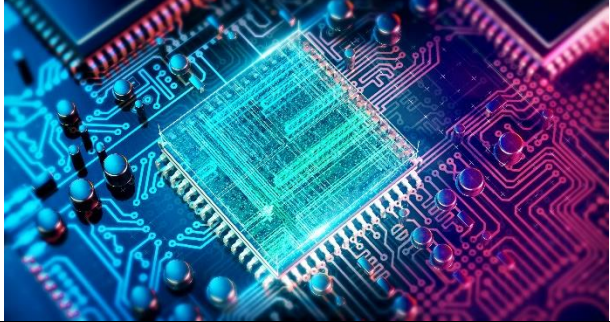

BluGlass Laser Diode Product Suite

BluGlass is developing bespoke laser diodes across multiple market segments, including Industrial, Display and Biotech applications, which is being driven by specific customer needs within these industries.

BluGlass' unique technology advantages have the potential to offer high power, differentiated laser diode products by using novel designs that leverage low temperature remote plasma chemical vapour deposition (RPCVD) and active as grown (AAG) p-GaN technologies. Current product development covers a range of wavelengths from violet (395nm), blue and through to green (525nm) wavelengths for various customer applications including:

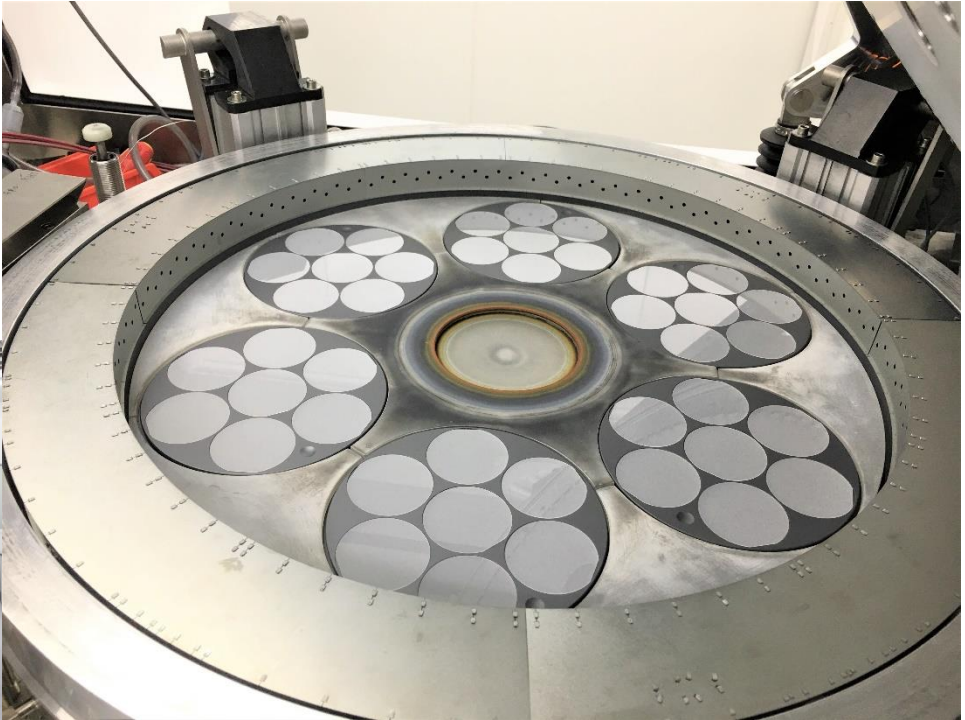
Discrete LD chips and Chip-on-Submount (C-o-S) from 395nm-525nm in both single-mode (SM) and multi-mode (MM)

Markets		Applications
	Industrial Markets (405nm, 450nm, 525nm)	<ul style="list-style-type: none"> Welding Cutting Machine Vision & Sensing 3D Printing Printing

	Display Markets (450nm, 525nm)	<ul style="list-style-type: none"> • Pico Projector • Business/Cinema Projector • Heads-up-Display • AR/VR
	Biotech/Life Sciences Markets (405nm, 420nm, 450nm, 490nm, 525nm)	<ul style="list-style-type: none"> • Flow Cytometry • Medical Diagnostics • DNA Sequencing • Endoscopy • Bio-Fluorescence
	Scientific Markets (405,420,450, 490,525)	<ul style="list-style-type: none"> • Raman Spectroscopy • Confocal Fluorescence Microscopy • Quantum Computing • Optical Clocks • Forensics • Machine Vision
	Lighting Markets (450)	<ul style="list-style-type: none"> • Automotive Headlamps • Spot-Light / Torch • General Lighting

AIXTRON 2800 G4 Retrofit

The AIXTRON 2800 G4 retrofit has now completed hardware assembly and is undergoing final commissioning, testing and software optimisation for RPCVD mode in collaboration with AIXTRON.



This announcement has been approved for release by the board.

About BluGlass

BluGlass Limited (ASX: BLG) is a global leader commercialising a breakthrough technology using Remote Plasma Chemical Vapour Deposition (RPCVD) for the manufacture of high-performance LEDs and other devices. BluGlass has invented a new process using RPCVD to grow advanced materials such as gallium nitride (GaN) and indium gallium nitride (InGaN). These materials are crucial to the production of high-efficiency devices such as high-brightness light emitting diodes (**LEDs**) and **laser diodes** and **microLEDs** used in next-generation devices from lighting, displays, virtual reality systems and industrial cutting and welding.

RPCVD's unique low temperature, low hydrogen growth platform offers many potential benefits to electronics manufacturers over existing growth techniques; including higher efficiency, lower cost, greater substrate flexibility and has the potential to enable novel applications.

In 2019, BluGlass launched its direct-to-market Laser Diode business unit to exploit its unique tunnel junction technology capability in the high-value and high-margin laser diode market. BluGlass expects to launch its first laser diode commercial product in 2021. **Contact:** Stefanie Winwood +61 2 9334 2300 swinwood@bluglass.com.au