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HIGH TECH EXPERTS TO DRIVE BLUGLASS'S LEADING-EDGE LED LIGHTING TECHNOLOGY

- **External industry specialists to boost BluGlass's pool of high-tech expertise**
- **Technology Council supplants the former Technical Advisory Committee and CTO functions and supports BluGlass' transition to a commercial growth phase**

Next generation lighting pioneer BluGlass Ltd today established a Technology Council of four experts to drive the commercial development of its world-leading light emitting diode (LED) technology.

BluGlass CEO Giles Bourne said: "The appointment of a Technology Council is a major step forward. It enables us to draw on world-leading expertise to keep our technical team focused on industry's current and future needs." The company opened its pilot manufacturing plant in Sydney three months ago, and is now in discussions with global lighting manufacturers about their commercial use of its unique LED production process.

The Technology Council comprises eminent authorities, Professor Chennupati Jagadish, a specialist in semiconductor optoelectronics and nanotechnology, and Dr Petar Atanackovic, an expert in the fields of CMOS integrated circuit technology, compound semiconductors and optoelectronics. Together with two internal members from BluGlass' technical team, Dr Marie Wintrebert-Fouquet and Conor Martin, they will provide direction for the timely commercial delivery of BluGlass's technology.

Prof Jagadish said: "I am pleased to be taking up the Chair of the Technology Council and increasing my involvement with BluGlass. It is important to develop new technologies to improve the efficient use of energy, such as solid state lighting in which the company is aiming to be a major player. The global environmental implications of this technology are potentially large and it is of great personal satisfaction to be closely involved with commercialising such an important Australian technology."

Dr Atanackovic said: "The BluGlass team, led by Dr Scott Butcher, has developed innovative techniques suitable for commercialisation on the new generation nitride platforms. BluGlass is a unique enterprise offering significant technology innovations in one of the highest commercial growth areas of nitride-based compound semiconductors. Clearly, the BluGlass technology and commercialisation roadmap is well positioned to develop cost-effective industry solutions and improve energy efficiency in the area of solid state lighting."

The Technology Council replaces the former role of BluGlass's Chief Technical Officer, held by founding scientist Dr Scott Butcher. He has opted to take a part-time role with the company for health reasons. "Dr Butcher will continue to assist the technology team by remaining active in the technical aspects of GaN film growth technology," Mr Bourne said. "Over time, he will also focus on the research of

alternative group III nitride applications that will create strategically important IP and commercial opportunities.”

About BluGlass Technology Council members

Prof Chennupati Jagadish

Professor Jagadish was born and educated in India, and worked in India and Canada prior to moving to Australia in 1990. He is currently an ARC Federation Fellow, Professor and Head of Semiconductor Optoelectronics and Nanotechnology Group in the Research School of Physical Sciences and Engineering, Australian National University, and convenor of the ARC Nanotechnology Network.

Prof Jagadish has published more than 500 research papers (350 journal papers), has five US patents awarded, is a winner of the 2000 IEEE Millennium Medal and has served on numerous international professional society committees and advisory boards. He advises high tech industries in Australia and overseas in the field of photonics and nanotechnology and has collaborated with researchers from 20 different countries. He has been working with BluGlass as Chair of the Technical Advisory Committee in their quest to prove this novel technology.

Dr Petar Atanackovic

Dr Atanackovic received a PhD in Physics from the University of Adelaide, Australia in 1996 and was a senior research scientist at the Defence Science & Technology Organisation. He was a visiting scholar at Stanford University 1998-2001, where he worked on optical interconnects, advanced photonic devices and atomically-engineered semiconductors. He was founder and Chief Technology Officer of Translucent Inc, based in Palo Alto, California, recently acquired by Silex Systems. Between 2001 and 2008, he developed a new Si-based photonic technology and was Principal Investigator in a US Defence Advanced Research Projects Agency (DARPA) funded “Electronics & Photonics Integrated Circuits” program. He is presently CTO for nanotechnology research company Zcells Pty Ltd.

Dr Atanackovic has more than 20 US Granted Patents in the field of fundamental semiconductor materials, high performance electronics and optoelectronics and alternative energy concepts. He has a broad range of further patent applications in the areas of fundamental semiconductor materials, CMOS, biotechnologies, nanotechnologies and energy conversion.

Dr Marie Wintrebert-Fouquet

Marie was born and educated in France. She migrated to Australia after graduating from the University of Montpellier II in 1995 with a PhD in optoelectronics, electronics and systems. She worked in the electronics department at Macquarie University where she gained experience in precision engineering with semiconductor components and became a device producer - modeling, designing and fabricating resonant tunneling diodes and transistors. In the physics department, she became closely involved in growing and characterising thin nitride films of gallium nitride and indium nitride.

Marie has been working as a senior research scientist in close collaboration with Dr Butcher since BluGlass was established. Her expertise lies in overseeing and maintaining the integrity of characterisation, and in ensuring that material development is focused towards a LED device outcome.

**Conor Martin**

Conor graduated with a degree in Experimental Physics and a Masters degree in High Performance Computing from Trinity College Dublin in 2001. He spent five years in Europe with a major semiconductor equipment manufacturer in the Product Design and Development Department before moving to Australia to join BluGlass in January 2007.

His expertise lies in product design and development and in particular, the use of Computational Fluid Dynamics, an analysis tool for the optimisation of the equipment and the RPCVD process, speeding up development time and cutting down the time to market for BluGlass's products. He provides hardware and process development support for BluGlass's new and existing equipment as well as technical support of sales and marketing activities worldwide. He is currently the company's equipment design and development manager.

About BluGlass

BluGlass is currently re-positioning from a research-based proof of technology enterprise to being a market-focussed product development company. Its Technology Council will provide significant direction and support for commercialising its unique manufacturing technology to reduce the cost of GaN semiconductor wafers. GaN wafers are a key component of high brightness LEDs for which there is a US\$4 billion global market, expected to grow to US\$12 billion by 2012. Applications include: use in mobile appliances, signs/displays, automotive, signals and illumination. BluGlass's breakthrough in low cost manufacture of GaN could allow LEDs into mass markets such as the US\$100 billion general lighting market currently dominated by incandescent and fluorescent lights.

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