

Press Release

Ila Technologies Hosts Scientific Luminaries at Industry's First Grown Diamond Roundtable

Dynamic discussion aims to bring grown diamond industry to greater heights



Caption: Single Crystal Diamond Plates grown by Ila Technologies

Please download hi-res images from this link:

<https://www.dropbox.com/s/0tnshz7h6ury4ar/Single%20Crystal%20Diamond%20Plates%20grown%20by%20Ila%20Technologies.jpg?dl=0>

Singapore, 28 January 2015 – Singapore-based [Ila Technologies](#), a global leader in diamond growing technologies, recently organized its first-ever roundtable meeting, 'The Future of Grown Diamonds', on grown diamonds technologies and their potential across hi-technology industries, held during the [2014 Materials Research Society's \(MRS\) Fall Meeting and Exhibit](#) in Boston, Massachusetts.

The closed-door roundtable meeting was attended by 14 eminent scientists and professors working and researching on diamond technologies based applications. Ila Technologies was represented by its' Chief Technology Officer, Dr Devi Shanker Misra.

The dialogue was centred on the latest scientific developments, milestones and challenges of the grown diamond world. Among the topics discussed, the group deliberated on the present practice of using the terminology 'synthetic' to describe lab-grown diamonds.

"It was generally agreed that the term 'synthetic' is technically and scientifically incorrect. During our discussion, with regards to the definition of the Chemical Vapour Deposition (CVD) process and diamonds grown using the process, the overall consensus was that a more accurate descriptor would be "grown diamonds" as the physical and chemical properties of a grown and mined diamond are congruent," said **Dr Misra, CTO of Ila Technologies**.

The gathered intelligentsia from top universities across United States, Belgium, Russia and Taiwan agreed that the grown diamond industry is poised for greater success, and the next step lies in improving the quality and size of grown diamonds so as to enable its usage across a wider range of scientific applications.

Ila Technologies achieved an important milestone in September 2014, when it announced the successful creation of large size (7.5 mm x 7.5 mm) high quality, single crystal diamond plates of unsurpassed quality after eight years of extensive research. The breakthrough opened up unprecedented opportunities for use in highly versatile applications such as for radiation dosimeter used in cancer therapy, X-Ray detectors, X-Ray dosimeters, high power electronic devices, high voltage rectifiers, ultra high-energy particle detectors and various other sophisticated technological devices.

Dr Misra said, “We have a research-led approach at Ila Technologies and are currently working to develop larger diamond plates, 15mm x 15mm, twice the current dimensions, for single crystal diamonds. Our goal is to not only raise the quality of the plates but also keep it cost-effective.”

Larger diamond plates will enable making integrated electronic high power and high frequency circuits on diamonds, leading to potential breakthroughs in using diamonds for electronics.

Following the success of this first roundtable meeting, Ila Technologies plans to host several such discussion forums in the near future with reputed scientists and professors who are interested in the grown diamond field.

Detailed notes from the roundtable meeting can be found on Ila Technologies’ website at:
<http://2atechnologies.com/inaugural-grown-diamond-roundtable-conference-future-grown-diamonds/>

About Ila Technologies Pte Ltd

Established in 2005, Singapore-based Ila Technologies Pte. Ltd. is the industry leader in Grown Diamond technology. Based on its patented research & technology, the company grows colourless Type IIa diamonds (the purest types of diamonds) through a commercially viable and sustainable process. Applications of the rough diamonds grown by Ila Technologies include the commercial sector for mechanical, manufacturing and aerospace industries as well as in the luxury sector. Ila Technologies is certified for ISO 14001:2004, an Environmental Management Standard and ISO 9001:2008, a Quality Management Standard. For more information:

<http://2atechnologies.com/>

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