



Press release

G-ray Nanotech and the Leibniz-Institut für Kristallzüchtung (IKZ) join forces to develop detector-grade Gallium Arsenide wafers

New platform for very high performance X-ray detectors

Hauterive, Neuchâtel, XX February 2019 – **G-ray Nanotech and IKZ have entered into a research and development collaboration covering the doping of Gallium Arsenide structures and the manufacturing of high purity crystals in wafer form factor for detector applications.**

We are delighted to work with a world-leading institute in the field of material sciences, says Philippe Le Corre, CEO of G-ray Nanotech. The competencies of IKZ will allow us to accelerate significantly the expansion of our latanium™ detector architecture into medium-large energy X-rays applications as well as in the infra-red spectrum.

G-ray Industries SA, a Neuchâtel start-up, is currently developing ultra-high performance detectors dedicated to industrial non-destructive testing solutions. These ultra-high-performance detectors are developed in partnership with CSEM, based on G-ray's revolutionary patented latanium™ technology.

The latanium™ Evaluation kits are available for evaluation purposes as of Q1-2019. In addition, the G-ray technologies - in particular the covalent bonding of a silicon wafer to a GaAs, Ge or Si wafer at low temperatures and the very fast epitaxial growth of Germanium structures - are being positioned in the fields of high-energy physics research for new particle detectors and in vision systems for the automotive industry.

We are pleased to start a long-term collaboration with G-ray Industries, says Prof. Thomas Schroeder, IKZ's Scientific Director: IKZ is committed to push high performance crystalline materials to market applications and the state-of-the-art X-ray imaging detector development at G-Ray is a nice opportunity for us. We consider 3D heterointegration via bonding approaches as a fruitful strategy for us to innovate technologies by high quality, precisely tailored crystalline materials.

“With our expertise in materials science and technology we have supported the G-ray team right from the start. This is an outstanding opportunity to bring a ground-breaking X-ray detector technology to the market”, says Gian-Luca Bona, CEO of Empa, the Swiss Federal Laboratories for Material Science and Technology.



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Enclosure: image of Iatenium Evaluation Kit

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About G-ray Nanotech

G-ray Nanotech belongs to G-ray Industries SA, a company founded in 2015 in Neuchâtel. G-ray Industries SA is a development-stage company that has filed several revolutionary patents in the fields of X-ray imaging and new semiconductor assembly techniques. The company has developed key competences in monolithic detectors with integrated high-resolution CMOS. These innovations apply to a wide range of industries such as automotive, microelectromechanical systems (MEMS), high energy and particle physics, aerospace, defence and security.

Further information is available at www.g-ray.ch

About IKZ

The IKZ, based in Berlin, Germany, cooperates with multiple national and international universities, non-university research institutes and with industrial partners. Beside the membership in the Gottfried Wilhelm Leibniz Scientific Association (WGL), the institute is also a member of the German Association for Crystal Growth (DGKK).

The institute is divided into four departments: Nanostructures & Thin Films, Volume Crystals, Materials Science and Application Science. About 130 people work at IKZ. The personnel is roughly made up of half scientists and half technical staff.

Further information is available at www.ikz-berlin.de

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About Empa

Empa, the Swiss federal laboratories for materials science and technology, generates interdisciplinary solutions to overcome major challenges faced by industry, and creates the necessary scientific basis to ensure that our society develops in a sustainable manner. The Empa harbours more than 1'000 scientists, engineers, technicians and general staff.

Further information is available at www.empa.ch



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