Contribution ID: **229** Type: **not specified**

Shining a Light on Nanoelectronics: The IRT Nanoelec Characterisation Programme for Industry-Driven Innovation

Wednesday, 20 November 2024 12:15 (15 minutes)

As nanoelectronics push the frontiers of miniaturization, precision, and functionality, advanced material characterization has become critical to driving innovation and maintaining competitiveness in industrial applications. The Platform for Advanced Characterisation - Grenoble (PAC-G), in France, stands at the intersection of scientific discovery and industrial need, offering cutting-edge tools and methodologies tailored for the electronics industry. This presentation will explore how PAC-G empowers industries to harness advanced characterisation technologies for probing materials at the nanoscale levels. With collaborative access to state-of-the-art methods based on synchrotrons X-rays and neutrons. Developed in the framework of the Technological Research Institute (IRT) Nanoelec, PAC-G bridges R&D with practical solutions that enhance material properties, device reliability, and product longevity. Attendees will gain insights into the the platform,that act as a unique Innovation Hub, leverage on the smart specialisation of the Grenoble area, a unique ecosystem dedicated to the industry of semiconductors. We will describe unique industrial case studies and recent advancements that are transforming nanoelectronics characterization on a global scale.

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Session Classification: Plenary

Track Classification: AfLS