



Annealsys - ONERA joint development program for h-BN / graphene hetero structures

Montpellier, France, November 16, 2020



Since 2018 Annealsys and ONERA are involved in a joint development program for the synthesis of boron nitride and of graphene - boron nitride hetero-structures by a vapor deposition technique assisted by infrared lamps (RTCVD). The joint development program's aim is the industrialization of the process for depositing thin films of boron nitride and hetero structures of graphene boron nitride on large substrates up to 100 mm in diameter. An Annealsys AS-One 100 HT RTCVD and RTALD reactor has been installed at ONERA for the process development.

The Graphene 2020, graphene and 2D material virtual conference was the opportunity to present the results of the recent development of a two-steps CVD synthesis of Boron Nitride Islands on polycrystalline nickel substrate. The results are available on the ePoster presented by Laure Tailpied (Ph.D. Student at LEM, the UMR ONERA-CNRS) and attached to this news release.

About ONERA:

ONERA is the French national laboratory for aeronautics and space R&T, staffed by 2000 people. Under the supervision of the French Ministry of Armed Forces, ONERA has an annual budget of 237 million euros, of which more than half comes from commercial contracts. As the French expert in aerospace technologies, ONERA prepares tomorrow's defenses, meets the aerospace challenges of the future, and contributes to the competitiveness of the European aerospace industry. ONERA masters all the disciplines and technologies in its aerospace fields. All major civil and military aerospace programs in France and Europe contain "DNA" from ONERA: Ariane, Airbus, Falcon, Rafale, missiles, helicopters, engines, radars, etc.

For more information visit ONERAs web site: https://www.onera.fr/

About Annealsys:

Founded in 2004 Annealsys and with more than 300 systems installed worldwide is a leading manufacturer of Rapid Thermal Processing and Direct Liquid Injection Deposition systems. We are supplying number of companies for the manufacturing of MEMS, sensors, optoelectronics, telecommunication, power and discrete devices. Many famous laboratories worldwide are using our machines for the development of future semiconductor, photovoltaic and nanotechnologies components. Our philosophy involves building up a long-term relationship with our customers, providing high reliability and high quality tools, insuring low cost of ownership and outstanding customer support.

For more information visit Annealsys web site: <u>www.annealsys.com/</u>

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