

„GEORG WAEBER INNOVATIONSPREIS DES

FÖRDERKREISES FÜR DIE MIKROELEKTRONIK“

THE „FÖRDERKREIS FÜR DIE MIKROELEKTRONIK E.V.“ AWARDS MR.

GILBERT LECARPENTIER

THE „GEORG WAEBER INNOVATIONSPREIS 2008“ FROM THE „FÖRDERKREISES FÜR DIE MIKROELEKTRONIK E.V.“
FOR HIS EXCELLENT ACHIEVEMENTS IN THE FIELD OF MICROELECTRONICS, ESPECIALLY
FOR HIS DEVELOPMENT CONCERNING

„UV-NANOIMPRINT LITHOGRAPHY – A COST-EFFECTIVE TECHNIQUE FOR PATTERNING
ELECTRON DEVICES ON NANOSIZED SCALE“

Nanopatterning techniques performed by UV-nanoimprint lithography are more cost-effective compared to currently used optical lithography techniques for electron devices on micro- and nanosized scale and provide additionally a high pattern fidelity, even for complex 3D-patterns. Based on the innovative developments performed by the prize winners, two imprinting tools were brought to readiness for market and imprint processes were developed for fabricating e.g. short channel transistors. The commercialization of the imprint toolings allows small and medium sized companies as well as research institutes to use this cost-effective nanopatterning technique and to realize innovative ideas and developments within the field of micro- and nanoelectronics.

MR. GILBERT LECARPENTIER

international strategic marketing manager for device bonder and nanoimprint lithography at S.E.T. SAS, was in his position significantly involved in implementing important developments that were based on experiments performed at the Fraunhofer IISB for the nanoimprint stepper NPS300. The improvements brought the imprint stepper to readiness for marketing. Key aspects of his activities were the optimization of the imprint head, the installation of a more sensitive self-levelling system, and the integration of an ink-jet system for dispensing the resist.

*Der Innovationspreis Mikroelektronik
soll ein Ansporn sein, sich auf dem Innovationsbereich der Mikroelektronik zu engagieren
und zur Stärkung des Wirtschaftsstandorts Deutschland auf diesem zukunftssträchtigen Sektor beizutragen.
Der Preis ist mit 3.000 € dotiert.*

V O R S I T Z E N D E R
Dr. sc. techn. h.c. Dietrich Ernst