

QUANTEMOL LIMITED ATTENDS PLASMA CONFERENCES IN U.S. AND JAPAN AS PART OF HORIZON2020 POWERBASE PROJECT

AVS symposium in California and DPS symposium in Awaji, Japan provide an excellent platform to increase awareness about Powerbase project and research undertaken by Quantemol within it and gauge insight into cutting edge industry research applications for further advancement of European industrial research in this field

20 Jan 2016 (LONDON) - Quantemol Limited has attended the international semiconductor plasma processing conferences held by the AVS and DPS as part of its work undertaken for the Powerbase project. These are two major industrial conferences where key world leading researchers in semiconductors industry and academia exchange ideas for further development.

The conferences largely focused on high aspect ratio etch requirements for small under 15 nm feature scales, which is the focus of Quantemol's research within the Powerbase project.

Currently, Quantemol is working on the development of plasma modelling aimed at developing a parameter optimisation system using computational modelling at reactor scale (Q-VT software) and feature scale (3D Sentaurus Topography Synopsys software).

The Powerbase project has received funding from the Electronic Component Systems for European Leadership (ESCEL) and was set up to ensure that European businesses can take advantage of innovations and developments within the semiconductor industry, giving them a competitive advantage in the global marketplace.

“It is essential for us to anticipate the next key issues and develop our software tools so that they supply our customers with the most advanced solutions available - allowing our customers to perform the industry-leading research and development that are required for advance solutions and to be sure that our software tools are the most advanced solutions available,” said Anna Dzarasova, Powerbase Project coordinator, Quantemol Limited.

“Within the project, we are also encouraging our research team to achieve their own personal and professional goals in advancing software products and providing consultancy. I view the whole system as being a great win-win.”

The conferences provided Powerbase with a platform to disseminate current developments done by Quantemol within the project, discuss it with interested researchers within the community and learn about most recent innovations which can assist Quantemol research within the project.

Posters produced by Quantemol for the conferences can be downloaded from these links:

AVS 2015: "[From Plasma Reactor to Surface Level: Linking Plasma with Feature Profile Simulations](#)"

DPS 2015: "[Linking reactor-scale plasma modelling with feature-scale profile simulation](#)"

About Powerbase

The research project PowerBase is developing the next generation of energy-saving Chips and preparing them for mass industrial use in smartphones, laptop computers and many other applications. Coordinated by Infineon Austria, the project's € 87 million volume and 39 partners from nine countries. More details can be found here: <http://www.powerbase-project.eu/>

About Quantemol Limited

Quantemol Limited offers unique software tools used to model electron polyatomic molecule interactions and simulations with plasmas and industrial plasma tools.

Currently Quantemol developed reactor scale models for the industrial partners, ams, SPTS, Trymax and Infineon with simple gas mixtures and also working on linking examples of reactor scale simulations with feature profile models. Next steps of development will include extending models to more complicated industrial gas mixtures, performing processes parameter optimisation for geometry variations and linking reactor scale models with feature scales for further process optimisation studies