

May 2016

**ADVENT Technologies at the MatHero Standardisation Workshop.
University of Barcelona, Barcelona, Spain. 26 – 27 May 2016.**

On behalf of ADVENT Technologies, Dr. Christos Chochos will participate in the 2016 MatHero Standardisation Workshop (www.mathero.eu/workshop) with an oral presentation entitled “**High Performance Polymer Semiconductors for Organic Photovoltaics: Design and Multigram Production Efforts**”.

Over the last couple of years, the global research community has been experiencing an Organic Photovoltaics (OPV) boom, nowadays triggering a fast growing interest in industry in this young and disruptive technology. In particular, OPV open up new opportunities for design in architecture, e.g. the integration of solar cells into facades, overhead glazings or windows. Major challenges associated with bringing organic photovoltaics to the market are: Increasing the power conversion efficiency, reducing the production costs and increasing the material and device long-time stability.

To increase the general performance of large scale roll-to-roll processed OPVs it is necessary to develop polymers and polymerization methods that allows for large scale production of high efficiency materials at a relatively low cost. It will be presented that even though it is possible to produce large quantities of high performance materials using traditional batch synthesis, problems such as variability from synthesis to synthesis leads to batch-to-batch variations in the molecular weight distribution which is a very influential parameter for most polymer systems in terms of delivering uniform high efficiency OPVs.

Advent Technologies is a world leader in the development of new materials and systems for energy applications. Advent Technologies is headquartered in Cambridge, MA, USA. The company also occupies research and development space in Patras, Greece where pilot manufacturing is taking place.

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