

## Conference Report

**International Symposium on Flexible Organic Electronics (IS-FOE):  
July 8 – 10, 2009 – Halkidiki, Greece**

---

### C. Gravalidis

The 2nd International Symposium on Flexible Organic Electronics (ISFOE-09) took place at the Porto Carras Hotel in Halkidiki, Greece, on July 8-10, 2009. The purpose of IS-FOE was to bring together scientists and engineers actively engaged in the research, development, and manufacturing of Flexible Organic Electronics including organic/inorganic materials, flexible substrates, manufacturing processes, circuit designs, flexible devices, system integrations and product applications, and to discuss current progresses in this emerging field.

The number of contributed presentations was 124 (22 invited, 48 oral & 54 poster), from 25 countries. Some of the contributed presentations will be published as peer review papers in the European Physical Journal - Applied Physics.

A special session devoted to Multifunctional Materials was co-organized with the PolyNet. It was an opportunity to present the FP7 Network of Excellence project, PolyNet. Partners from the project and other participants presented through 6 talks their work on these special materials.

All the presentations were outstanding and to the point of the scopes of ISFOE-09. Two of the most highlighted presentations are being summarized below:

**Dr. E. Fortunato** and her group, from the **University of Lisbon**, presented advances in electronics with the talk entitled: "Green electronics for the future: paper-e". In this work the group used cellulose as flexible substrate and dielectric layer and built an OTFT. This device showed FETs which operate in enhancement mode and exhibit a near-zero threshold voltage, a channel saturation mobility exceeding  $30 \text{ cm}^2/\text{Vs}$  and Drain-source current  $I_{\text{ON}}/I_{\text{OFF}}$  modulation ratio above 104. As Dr. Fortunato concluded there is plenty room for further improvements.

**Dr. M. Krebs** from **Varta MicroBattery** in Germany, with the presentation entitled "The way to fully printed batteries", showed the advances on the flexible battery field. More specifically he presented some of the candidate materials that can be used for the fabrication using roll-to-roll printing processes, such as Zinc/Manganese Dioxide (Easy to print, open System), Zinc/Silver Oxide, Lithium/Manganese Dioxide. However the development in this field must be moved in parallel with the other components

The 3rd International Symposium on Flexible Organic Electronics (ISFOE-10) is planned to take place at Ouranoupolis, Halkidiki on 7-9 July 2010.