

**E-MRS (European Materials Research Society) Spring Meeting:
May 26-30, 2008, Strasbourg, France**

G. Horowitz

The E-MRS 2008 spring meeting comprised 17 parallel symposia, out of which four were, at least in part, dedicated to organic electronics. These are:

- ▣ Symposium E "Thin film materials for large area electronics";
- ▣ Symposium O "Interface controlled organic thin films";
- ▣ Symposium P "Advanced organic and/or inorganic functional materials";
- ▣ Symposium Q "Functional supramolecular architectures for organic electronics and nanotechnology".

Symposium E was mainly devoted to inorganic materials such as hydrogenated amorphous silicon (a-Si:H) and polycrystalline silicon. There was one session on organic devices (plus a few posters), with an invited talk by Ghassan E. Jabbour (Arizona State University) on white organic light-emitting devices and five contributed presentations.

The topics developed in symposium O were as follows:

- ▣ Thin film growth,
- ▣ Energy level alignment,
- ▣ Defects,
- ▣ Devices (OTFTs and OLEDs),
- ▣ Nanofibers,
- ▣ Charge transfer,
- ▣ Near-field spectroscopy,
- ▣ Self-assembled monolayers.

Out of the ten invited talks, I was particularly interested by that by H. Sirringhaus (University of Cambridge, UK) on "Charge trapping in organic field-effect transistors", with an original application of the crowding effect to the problem of contact resistance in bottom-electrodes device. There was also an innovative presentation by P. Herremans (IMEC, Belgium) on "Electronic defect creation during growth of thin films of organic molecules", which is one of the first attempt to predict the energy of the defect levels in organic semiconductor by quantum mechanics calculations.

Symposium P was centered on:

- ▣ Nano-objects, nano-particles, nano-devices...
- ▣ Organization on surfaces, self-assembled materials,
- ▣ Hybrid functional materials (with a few presentation on hybrid solar cells and LEDs),
- ▣ Biomedical materials.

Finally, symposium Q was the most crowded one of the whole meeting, with more than 300 presentations. The topics included:

- ▣ Supramolecular chemistry,
- ▣ Nano manipulation, nano mechanics (patterning), nano-optics,
- ▣ Self-assembly (mainly dedicated to molecular electronics),
- ▣ Electron transfer (with an invited talk by V. Lemaire (University of Mons, Belgium) "Electron transfer at organic-organic interfaces", which discussed the crucial issue of the rate of exciton dissociation and recombination in organic LEDs),
- ▣ Devices (with the invited talk "Type conversion of OFETs by dielectric interface modification" by H. von Seggern).

This last symposium also included a joint session with symposium P on "Functional architectures for organic electronics" with two invited contributions: "Solution processable thienothiophene semiconducting polymers" by I. McCulloch, and "Towards molecular modulation of electronic devices" by D. Cahen.