ZnO at LMGP : a prospective review

Friday 17th of January 2014
Conference room 2nd floor at LMGP – Grenoble INP – Phelma - Minatec

8h50 Introduction (H. Renevier)

9h00 Growth of ZnO thin films by Injection MOCVD and plasma aerosol assisted MOCVD (20'+ 5').
J.L. Deschanvres, C. Jimenez, P.D. Szkutnik (LMGP)

9h25 Effects of processing and cell architecture in the performance of ZnO-based hybrid solar cells (20'+5')
D. Muñoz-Rojas, D. C. Iza, J. L. MacManus-Driscoll

9h50 ZnO nanowires: From PI-MOCVD growth to liquid solution routes (30'+ 5')
C. Ternon (LTM-LMGP), G. Rey, T. Demes, D. Riassetto, M. Langlet et al.

10h25-10h40 Coffee break

10h40 Growth mechanisms and optical properties of ZnO nanostructures" (20'+5')
S. Guillemin, J. Garnier, R. Parize, L. Rapenne, H. Roussel, E. Sarigiannidou, V. Cantelli, H. Renevier, E. Appert, G. Brémond (INL), V. Consonni.

11h05 ZnO nanowire / CuSCN heterojunctions for self-powered UV photodetectors" (15'+ 5')
J. Garnier, R. Parize, S. Guillemin, O. Chaix, A. Kaminski (IMEP), E. Appert, V. Consonni.

11h25 Light trapping in ZnO nanowire arrays covered with an absorbing shell for solar cells" (15'+ 5')
J. Michallon, D. Bucci (IMEP), A. Morand (IMEP), M. Zanuccoli (IUNET), V. Consonni, A. Kaminski (IMEP).

11h45 ZnO nanowires as building blocks for advanced devices" (30'+ 5')
V. Consonni, S. Guillemin, J. Michallon, J. Garnier, R. Parize, L. Rapenne, H. Roussel, E. Sarigiannidou, O. Chaix, V. Cantelli, H. Renevier, A. Kaminski (IMEP), E. Appert *et al.*

12h20 Discussion
12h45 End of the meeting

Correspondant : H. Renevier (LMGP)