



11. Fabrication Process II

Chair J. Hou (General LED, USA)

Co-Chair B. D. Chin (KIST, Korea)

11-1

13:10~13:35

[Invited] New Flexible Applications using Reflex™ Display Technology

A. Khan, D. J. Davis, T. Ernst, D. Marhefka, N. Miller, E. Montbach, O. Pishnyak, T. Schneider, and J. W. Doane (Kent Display Inc., USA)

Reflex™ display technology based on bistable, reflective, and flexible Cholesteric Liquid Crystal Displays is being developed and mass produced for new and non-traditional applications. These applications allow for personalization of mobile devices, very low cost display systems, ...

11-2

13:35~14:00

[Invited] Highly Flexible Low Power Consumption AMOLED Displays on Ultra-thin Stainless Steel Substrates

M. Hack, R.-Q. Ma, K. Rajan, J. J. Brown (UDC, USA), J. H. Cheon, S. H. Kim, M. H. Kang, W. G. Lee, and J. Jang (Kyung Hee Univ., Korea)

We present results demonstrating that low power consumption phosphorescent AMOLED displays can be fabricated on ultra-thin (25μm) stainless steel substrates, combining an amorphous silicon backplane with a top emission phosphorescent OLED frontplane. ...

11-3

14:00~14:20

Laser -addressing Electronic Paper

H.-Y. Chen, S.-C. Lu, S.-C. Chen, H.-K. Lin, S.-H. Liu, C.-M. Chen, and C.-C. Liang (ITRI, Taiwan)

A new laser-addressing method is proposed in this paper. With the characteristic of high power and small spot size, simple structure electronic paper can be addressed only by laser source, and high quality image with 300dpi resolution can be easily achieved.

11-4

14:20~14:40

Inkjet Technology and Products for Flexible Display Manufacturing

M. Schoeppler (Fujifilm Dimatix Inc., Japan)

Major display equipment suppliers introduced equipment using inkjets for manufacturing steps such as printing polyimide alignment layers and color filters. This paper discusses how inkjets can be used in the development of flexible displays and materials printing systems designed to meet the challenges of fluids and process development