

Thematic priority

Materials, Equipment and Production Technologies for Flat Panel Displays

The market > With escalating demand for larger fabs, the LCD and OLED manufacturing equipment market has witnessed a growth spur. While equipment spending in 2011 is expected to shrink slightly, AMOLED, LTPS and the Chinese market will maintain spending at a healthy level. The intensifying focus on energy efficiency and the gravitation toward environment-friendly products will accelerate demand for OLED displays over the next 3-5 years.

Production Equipment > Deposition and patterning of large substrates remain major impediments for LCD and OLED manufacturing equipment providers. The use of large substrates complicates the deposition process and incurs high capital costs in terms of material deposition and relevant technical issues with throughput and uniform deposition. Greater emphasis on design and prototyping will continue to revolutionize the display manufacturing equipment markets. As the consumer industry continues to witness increasing panel sizes, the deposition with high accuracy and throughput will be a key challenge.

Display Materials > Materials and components contribute 60 to 80% of the bill of materials (BOM) of a TFT-LCD. Improvements in both LCD and OLED displays strongly rely on innovations in materials. The introduction of LEDs strongly influenced the design of light guide plates and display films. Enhancements in OLED materials determine the success of the whole OLED device. We will have a look at how European manufacturers contribute to these developments.

The meeting > The 39th DFF Working Group Meeting is hosted by M.Braun Inertgas-Systeme GmbH in Garching near Munich. On the eve of the meeting, you will have the chance to participate in the M.Braun company tour and to network in a joint get-together. Throughout the meeting, various presentations will look at new developments in materials and equipment for the production and the testing for FPDs and on new production technologies.

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www.displayforum.de/service/networking.htm

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