

**Draft Programme for
Future Display Developments**

**SID's International Display Research Conference
EURO DISPLAY 2005**

**19th September 2005
Edinburgh International Conference Centre
Edinburgh, UK**

- 08.45** Welcome **Alan Mosley, The IFM Company**
- Session 1** **Displays for Mobile Phones**
- 09.00** **Mobile Displays for End-User Delight**
Jyrki Kimmel, Nokia Research Center, Finland
The display in mobile communication devices is one of the strategic components of the user interface. The challenges in display solutions for increasing end-user needs are in satisfying the demands of new imaging, gaming, entertainment, and business applications. New technologies that can be applied to new mobile devices will be discussed.
- Session 2** **Displays for Wide Screen Televisions**
- 09.30** **TV Market Outlook**
Ross Young, DisplaySearch, USA
The TV market is changing rapidly as new technologies with slimmer form factors compete with conventional CRT TVs. In addition, HDTV broadcasting and next generation DVDs are creating demand for higher resolution TVs. While performance improvements are dramatic, consumers are confused. This presentation will present DisplaySearch's view on the outlook for the TV market.
- 10.00** **Projection TVs**
Greg Truman, CRLO Displays, UK
Rear Projection TV (RPTV) sales are growing at an unprecedented rate (292% growth from 2003-2004) opening up the opportunity for a number of new microdisplay technologies to make the transition from small-scale manufacture to high volume products. Differing microdisplay technologies will be explained and their advantages and disadvantages for RPTV use will be explored.
- 10.30** **Break**

11.00 LCD TVs
TBD

11.30 **Plasma Displays for Big Screen TVs**
Larry F. Weber, USA

Plasma Panel Displays now hold the lead position in world dollar sales for direct view TVs over 40 inches diagonal. They will maintain this lead over the strong challenges by LCD TVs and projection TVs because of continued technical advances leading to lower manufacturing costs and improved luminous efficiency.

12.00 **Field Emission Displays TVs**
Robert Meyer, LETI, CEA, France

Because of intrinsic advantages of image quality and power consumption, FED displays continue to be developed for the consumer TV market. New implementations of FED technology based on nanotechnologies such as nanocracks, carbon nanotubes, and nanowires can overcome the previous limitations of FED, i.e. scalability and cost, and promise to lead to the next generation TV displays.

12.30 **Lunch**

Session 3 **OLEDs and Organic Electronics**

14.00 **OLED and Plastic Electronics: Looking Forward**
Kimberly Allen, iSuppli Corp, USA

The OLED market has now surpassed a half-billion dollars, and continues to expand as active-matrix addressed OLED technology moves into full commercialisation. Plastic electronics are rapidly becoming a reality for next-generation devices. This presentation provides the latest information on technical advances, product development, company strategies, and iSuppli's market forecast.

14.30 **Small Molecule OLEDs**
Amal Ghosh, Kodak amal.ghosh@kodak.com

15.00 **OLEDs: A Display Technology Today with a Flexible and Illuminating Future**

Julie Brown, Universal Display Corporation, USA

In order to maintain the momentum for the commercialisation of OLED displays, continuous improvements in OLED performance such as efficiency, lifetime and colour gamut are required. This paper will discuss the current state of OLED performance as applied to flat panel display products today and give a perspective on future applications including flexible displays and light sources.

15.30 Break

16.00 P-OLED: Building the Infrastructure for Commercialisation

Jeremy H Burroughes, CDT. UK

After summarising the latest progress in P-OLEDs, the development of the necessary infrastructure to allow commercialisation of P-OLEDs will be described. CDT has been active through acquisition, partnerships and joint developments, to ensure that materials, driver chips, substrate backplanes, ink jet printing equipment and processes etc. are all available, to ensure the success of P-OLEDs.

16.30 Flexible Displays

Mark H.F. Overwijk, Philips Research, Eindhoven, The Netherlands.

Flexible-display technology promises to be the next disruptive display technology. The main benefits of flexible displays are that they are thin, light weight, rugged, they can be cut into various shapes, and last, but not least, they are indeed flexible. The development of flexible displays will be summarised with special attention given to electrophoretic displays.

17.00 Plastic Electronics : Are We Nearly There Yet ?

Tom McLean, Merck Chemicals Ltd, UK

The appearance of sophisticated demonstrators and industry consolidation show that the Plastic Electronics Industry is making the transition from academia to industry. This presentation will explore the barriers between the current state of the art and real commercialisation. Issues such as materials performance and stability will be described and the viability of various process technologies will be assessed.

17.30 Close