

SID/MAC OLED RESEARCH & TECHNOLOGY CONFERENCE

NOVEMBER 4, 2004

**GRAND BALLROOM
MARRIOTT HOTEL
300 BRAE BOULEVARD
PARK RIDGE, NJ 07656**

PRELIMINARY AGENDA

- 8:00-8:30 **REGISTRATION**
- 8:30-8:45 **Welcoming Remarks**
 Ravi Rao, Plasmaco - Chairman of SIDMAC
 Mike Hack, General Chair, UDC
- 8:45-9:15 **KEYNOTE ADDRESS**
Electronics Anywhere: The New Microelectronics Revolution
T.N. Jackson, Penn State University, University Park, PA
- 9:15-5:00 **TABLETOP EXHIBITS OPEN**

SESSION 1: FLEXIBLE DISPLAYS (9:15 – 10:10 AM)

- 9:15-9:40 ***ARL Organic Material Development for Flexible Display Technologies***
J. Shi, E. Forsythe, D. Morton
Army Research Laboratory, Adelphi, MD
- 9:40-9:55 ***Recent Advances in Flexible Phosphorescent OLEDs on Metal Foil***
A. Chwang, Y-J Tung, R. Hewitt, M. Hack, and J.J. Brown,
Universal Display Corporation, Ewing, NJ
J. Lu, C. Shih, and J. Ho
Palo Alto Research Center, Palo Alto, CA
- 9:55-10:10 ***Mechanical Performance of Thin Films in Flexible OLED Displays***

J. Lewis, S. Grego, E. Vick, B. Chalamala, and D. Temple
MCNC Research and Development Center, RTP, NC

10:10-10:40 **REFRESHMENT BREAK**

SESSION 2: ORGANIC FETS FOR DISPLAY BACKPLANES (10:40 – 11:35 AM)

10:40-11:05 **What Will be the New Oxide for Organic Semiconductors?**
I. Kymissis, A.I. Wang, A.I. Akinwande, and V. Bulovic
Massachusetts Institute of Technology, Cambridge, MA

11:05-11:20 ***Solution-Processed OTFTs with 1 cm²/V-s Mobility***
C.-C. Kuo and T.N. Jackson
Penn State University, University Park, PA
M.M. Payne and J.E. Anthony
University of Kentucky, Lexington, KY

11:20-11:35 ***Physical Extraction of Mobility in OFETs***
K. Ryu, I. Kymissis, V. Bulovic and C. Sodini
Massachusetts Institute of Technology, Cambridge, MA

SESSION 3: METAL/ORGANIC CONTACTS (11:35 – 12:15 PM)

11:35-12:00 ***Charge Injection into Cathode-Doped Amorphous Organic Semiconductors***
B.N. Limketkai and M.A. Baldo
Massachusetts Institute of Technology, Cambridge, MA

12:00-12:15 ***The Design of Device Structure with Common Cathode for Full-Color PLED Display***
Y. Fujita and M. Kodan
Sharp Corporation, Tenri, Nara, Japan

12:15-2:00 **LUNCH**

SESSION 4: LIGHT EMITTING DEVICE TECHNOLOGIES (2:00 AM – 3:25 PM)

2:00-2:25 **Light Emitting Devices from Ionic Transition Metal Complexes**
G.G. Malliaras, Cornell University, Ithaca, NY

2:25-2:40 ***A Method for Fabrication of Saturated RGB Quantum***

Dot Light Emitting Devices

S. Coe-Sullivan, J.S. Steckel, L. Kim,
M.G. Bawendi, and V. Bulovic,
Massachusetts Institute of Technology, Cambridge, MA

2:40-2:55 ***A Tandem OLED and its Unusual Luminous Efficiency Gain***

L.S. Liao, K.P. Klubek and C.W. Tang
Eastman Kodak Company, Rochester, NY

2:55-3:10 ***Patterning of Active Organic Materials by Direct Transfer
Based on Organic-Organic Adhesion***

C. Kim, Y. Cao, W.O. Soboyejo, and S.R. Forrest
Princeton University, Princeton, NJ

3:10-3:25 ***Strong Coupling of Light and Matter in J-Aggregate
Based OLEDs***

J.R. Tischler, M.S. Bradley, and V. Bulovic
Massachusetts Institute of Technology, Cambridge, MA
J.H. Song and A.V. Nurmikko
Brown University, Providence, RI

3:25-4:00 **REFRESHMENT BREAK**

SESSION 5: MANUFACTURING METHODS (4:00 – 4:55 PM)

4:00-4:25 ***Organic Vapor Phase and Organic Vapor Jet Deposition of
OLEDs and Photovoltaic Cells***

S. R. Forrest, F. Yang, Y. Sun and M. Shtein
Princeton University, Princeton, NJ

4:25-4:40 ***Efficient and Stable Phosphorescent OLED Fabricated by
Organic Vapor Phase Deposition (OVPD)***

T.X. Zhou, T. Ngo, and J.J. Brown
Universal Display Corporation, Ewing, NJ

4:40-4:55 ***Qualification of Generation 2 Organic Vapor Phase
Deposition (OVPD) Equipment for OLED Manufacturing***

M. Schwambera, M. Gersdorff, D. Keiper, M. Reinhold, N.
Meyer, B. Marheineke, G. Strauch, and M. Heuken
AIXTRON AG, Aachen, Germany