

FINAL AGENDA

MONDAY, FEBRUARY 5, 2007

12:30 to 7:00 Registration in Conference Center Main Lobby

1:30 to 5:30 Short Course: Printed & Organic Electronics

Paul Brazis, PhD, Daniel Gamota, PhD

Krishna Kalyanasundaram, MSE, Jie Zhang, PhD, Motorola



TUESDAY, FEBRUARY 6, 2007 -- ANASAZI BALLROOM

8-8:15 Welcome & Conference Overview

Dr. Bob Pinnel – USDC

8:15 to 9:40 **Session 1 Market Outlook**

Chair: Dr. Bob Pinnel, USDC

8:15-8:45 1.1 Invited – A Roadmap for Flexible Displays

Dr. Barry Young – DisplaySearch

8:45-9:15 1.2 Invited – The Other Flexibility: Flexible Electronics Markets Outside the Display Industry

Lawrence Gasman – NanoMarkets

9:15-9:40 1.3 Market Forecasts, Production Capacity & Investment: Are They Aligned?

Craig Cruickshank – cintelliq

9:40 to 10:10 *Break – Exhibits*

10:10 to 12:00 **Session 2 Markets & Applications**

Chair: Dr. Malcolm Thompson, MJT Consulting

10:10-10:35 2.1 Invited – The Display Market Outlook

Kenny Kim – DisplayBank

10:35-11:00 2.2 Invited – ‘A Rollable Display in Every Device’

Karl McGoldrick – Polymer Vision, Ltd

11:00-11:25 2.3 Invited – Revolutionizing Medicine with Flexible P&OE

Dr. Mike Spencer – Cornell Univ.

11:25-11:50 2.4 Commercializing Flexible Substrates for Displays & Lighting: Challenges and Opportunities

Dr. Mark Auch – IMRE

11:50-12:00 Q&A

12:00 to 1:15 *Lunch – Posters and exhibits*

1:15 to 3:05 **Session 3 Flexible Products I**

Chair: Dr. Janice Mahon, UDC

1:15-1:40 3.1 Invited – Electro-Phoretic Displays

Dr. Michael D. McCreary – E Ink

1:40-2:05 3.2 Invited – Printed Electronics

Daniel Gamota, PhD – Motorola

2:05-2:30 3.3 Invited – New Wave for Flat Panel Display

Peter Shin – Samsung SEC

2:30-2:55 3.4 A Flexible P-OLED Display Technology Leveraging Existing Print Technologies to Enable Rapid Commercialization

Dr. Devin MacKenzie – Add Vision

2:55-3:20 3.5 USDC’s FP&O Initiative – Impetus & Impact

Michael Ciesinski – USDC

3:20-3:30 Q&A

3:30 to 4:00 *Break – Posters and exhibits*

4:00 to 5:50 **Session 4 Flexible Products II**

Chair: Dr. James Buntaine, Kodak

4:00-4:25 4.1 Invited - UTL (Ultra Thin and Light) Flexible AMOLED Display on Metal Foil: Recent Developments and Technical Issues

Dr. Steve Yeon-Gon Mo – Samsung SDI

4:25-4:50 4.2 Invited – Flexible Displays

Dr. Cheng-Chung Lee – ITRI

4:50-5:15 4.3 Invited – Technology Advances for AMOLED on Flexible Metal Foil

Richard Hewitt – UDC

5:15-5:40 4.4 Development of the Novel Hybrid LCD with High Accuracy Plastic Color Filter

Dr. Jyh-Wen Shiu – ITRI

5:40-5:50 Q&A

5:50-6:00 Special Drawing – Turn in Your Day One Survey & Enter to WIN an IPOD Shuffle!

6:15 to 7:30 *Hosted Conference Cocktail Party > Exhibits and Posters*

WEDNESDAY, FEBRUARY 7, 2007 TRACK A [KIVA/KACHINA]

8:30 to 9:55	<u>Session 5 Manufacturing I</u>	<u>Chair: Dr. Janos Veres, Kodak</u>
8:30-8:55	5.1 Invited – High Performance Printed Electronics	Dr. Etienne Menard – Semprius
8:55-9:20	5.2 Invited – Manufacturing for Flex	Simon Jones – Plastic Logic
9:20-9:45	5.3 Digital Lithography of a-Si Backplanes on PEN Substrates	Dr. Robert Street – PARC
9:45-9:55	Q&A	
9:55 to 10:20	<i>Break – Posters and exhibits</i>	
10:20 to 12:10	<u>Session 7 Manufacturing II</u>	<u>Chair: Bob Praino, Chasm Technology</u>
10:20-10:45	7.1 Invited – Coaters for Flexible Manufacturing	Hans Maidhof – Applied Materials
10:45-11:10	7.2 From Printing Graphics to Printing Electronics	Eran Elizur – Kodak
11:10-11:35	7.3 Ink Jet Technology and Solutions for Printed Electronics	Dr. Martin Schoeppler – FUJIFILM Dimatix
11:35-12:00	7.4 Printable Electronics: Materials & Processes	Dr. Graciela B. Blanchet – DuPont
12:00-12:10	Q&A	
12:10 to 1:15	<i>Lunch – Posters & Exhibits</i>	
1:15 to 3:05	<u>Session 9 Manufacturing III</u>	<u>Chair: Dr. Nick Colanari, FDC</u>
1:15-1:40	9.1 Center for Advanced Microelectronics Manufacturing	Prof. Bahgat Sammakia – State University of New York at Binghamton
1:40-2:05	9.2 Towards R2R Manufacturing of Electronics on Flexible Substrates	Dr. Mark D. Poliks, Endicott Interconnect Tech.
2:05-2:30	9.3 Flexible Electronics at NDSU - From Organic Spintronics to RFID Chemisensors	Dr. Carl Taussig – HP
2:30-2:55	9.4 Impact of a R2R Method on Flexible TFT Backplane Manufacturing	Dr. Douglas Schulz – North Dakota State Univ.
2:55-3:05	Q&A	Toru Sakai – Philips Applied Tech
3:05-3:30	<i>Break – Posters & Exhibits</i>	
3:30-5:20	<u>Session 11 Manufacturing IV</u>	<u>Chair: Prof. Bahgat Sammakia, SUNY-BU</u>
3:30-3:55	11.1 Process Technology Scale-up for Large- Area Coating Operations	Robert Praino – Chasm Technology
3:55-4:20	11.2 Production Ready Process Equipment for Flexible Displays	Chad Brubaker – EV Group
4:20-4:45	11.3 The Bending Test of Flexible Liquid Crystal Display	Jyh-Wen Shiu – ITRI
4:45-5:10	11.4 Flexible Template for Large Area Epitaxial Crystal Growth	Dr. Les Fritzeimer – Wakonda Technologies
5:10-5:20	Q&A	
5:20-5:30	Special Drawing – Turn in Your Day TWO Survey & Enter to WIN an IPOD Shuffle!	
5:30	<i>Adjourn – free evening</i>	

WEDNESDAY FEBRUARY 7, 2007 TRACK B [PUEBLO/SONORA ROOM]

8:30 to 9:55	Session 6 TFTs I	Chair: Prof. James Sturm, Princeton Univ.
8:30-8:55	6.1 Invited – EPLaR for Flex Backplanes	Ian French – Philips
8:55-9:20	6.2 Fabrication of LTPS Thin Film Transistors On Plastic with the EPLaR Process for Flexible Circuits and Displays	Dr. Francois Templier – CEA LETI
9:20-9:45	6.3 AM TFT Technology Development and Pilot Line Manufacturing for Reflective and Emissive Flexible Displays	Prof. Greg Raupp – FDC
9:45-9:55	Q&A	
9:55 to 10:20	<i>Break – Posters & Exhibits</i>	
10:20 to 12:10	Session 8 TFTs II	Chair: Dr. Robert Street, PARC
10:20-10:45	8.1 Stable Flexible TFT Backplanes on Clear Plastic	Prof. James Sturm – Princeton
10:45-11:10	8.2 The Reliability of 200°C a-Si :H TFTs on Polyimide Substrate	Dr. Yung-Hui Yeh – ITRI
11:10-11:35	8.3 All-Additive Printing of Flexible Polymer TFT Backplanes	Dr. Ana Claudia Arias – PARC
11:35-12:00	8.4 Advanced Measurements to Correlate Materials Structure with Carrier Mobility in High Performance Semiconducting Polymers	Dr. Dean DeLongchamp – NIST
12:00-12:10	Q&A	
12:10 to 1:15	<i>Lunch – Posters & Exhibits</i>	
1:15 to 3:05	Session 10 Flex Technologies I	Chair: Dr. Greg Moeller, QD Vision
1:15-1:40	10.1 Challenges in Progressing From Rigid to Flexible FPD Barrier Adhesives	Jie Cao – NSC
1:40-2:05	10.2 Contact Printing of Quantum Dot/Organic Hybrid LEDs for Flexible Displays	Seth Coe-Sullivan – QD Vision
2:05-2:30	10.3 Single Dopant White Phosphorescent OLED with 100% Internal Quantum Efficiency	Prof. Ghassan Jabbour – ASU
2:30-2:55	10.4 Developments in Microcup Electrophoretic Display	Dr. HongMei Zang – SiPix
2:55-3:05	Q&A	
3:05-3:30	<i>Break – Posters & Exhibits</i>	
3:30-5:20	Session 12 Flex Technologies II	Chair: Shawn O'Rourke, FDC
3:30-3:55	12.1 Fabrication of a Flexible Bistable Cholesteric Liquid Crystal Displays (Ch-LCD) Using a FCCL Film Substrate	Steve Kang – ImageLab
3:55-4:20	12.2 Advances in Ultra Thin Flexible Color Cholesteric Displays	Dr. Asad Khan – Kent Displays
4:20-4:45	12.3 Flexible Electrowetting Displays for e-Paper and Electro-camouflage	Prof. Jason Heikenfeld – Univ. of Cincinnati
4:45-5:10	12.4 Rollable Tubular Plasma Displays	Chad Moore, Ph.D. – NuPix
5:10-5:20	Q&A	
5:20-5:30	Special Drawing – Turn in Your Day TWO Survey & Enter to WIN an IPOD Shuffle!	
5:30	<i>Adjourn – free evening</i>	

THURSDAY, FEBRUARY 8, 2007 – ANASAZI BALLROOM

8:30 to 9:55	Session 13 Materials: Organics & OLEDs	Chair: Brett Bryars, USDC
8:30-8:55	13.1 Invited: Flexible Displays-from Research to Products	Dieter Schroth – EMD Chemicals
8:55-9:20	13.2 Development of Novel Hole Injection System for Robust Polymer Light Emitting Diodes	Toshio Suzuki, Ph.D. – Dow Corning
9:20-9:45	13.3 Materials Advancements for Flexible Microelectronics	Andrew Hannah – Plextronics
9:45-9:55	Q&A	
9:55 to 10:20	<i>Break – Posters & Exhibits</i>	
10:20 to 12:10	Session 14 Materials: Substrate Barrier Materials	Chair: Dr. Keith Rollins, DuPont Teijin
10:20-10:45	14.1 Ultra-barriers Grown By Atomic Layer Deposition on Polymer Substrates	R. Scott McLean – DuPont
10:45-11:10	14.2 Roll-to-Roll Ultra-high Barrier Substrate for Organic Electronics	Dr. Ahmet Gun Erlat – General Electric
11:10-11:35	14.3 SiC:H Alloy Barrier Films	Glenn Cerny – Dow Corning
11:35-12:00	14.4 Flexible High Barrier Films and Gas Permeation Measurement Techniques for Plastic Electronics Applications	Senthil Ramades – IMRE
12:00-12:10	Q&A	
12:10 to 1:15	<i>Lunch – Posters & Exhibits</i>	
1:15 to 3:05	Session 15 Materials: Substrates & Conductors	Chair: Dr. Bob Pinnel, USDC
1:15-1:40	15.1 Latest Developments in Polyester Film for Flexible Electronics	Dr. Bill MacDonald – DuPont Teijin Films
1:40-2:05	15.2 Conductive Nano-Flakes	Angelo Yializis, Ph.D.–Sigma Tech.
2:05-2:30	15.3 CNT Transparent Conductive Coatings	Chris Weeks – Eikos
2:30-2:55	15.4 Strain Induced Parameter Variation of Flexible Displays with Granular Metal Electrodes	Da-Peng Wang – Brown University
2:55-3:20	15.5 Characterization of Polyimides as a Gate Insulator for Organic Thin Film Transistors	Ichiro Kobayashi-Nissan Chemical
3:20-3:30	Q&A	
3:30-3:40	Special Drawing – Turn in Your Day THREE Survey & Enter to WIN an IPOD Shuffle!	
3:40	Conference Adjourns until January 24-26, 2008, Phoenix, AZ (home of 2008SuperBowl XLII)	