Tuesday, June 5 / 11:00 am – 12:00 pm / Exhibit Hall B

**F1.1: Beyond eBooks** (11:00)

Jennifer Vail  
*E Ink Corp., Cambridge, MA*  
Booth 317

The eReader industry has grown rapidly, and E Ink's e-paper displays have become the de facto standard in this industry. E Ink's e-paper displays are also making a major impact on several other industries in applications beyond eBooks. E Ink's SURF displays are used in mobile phones, smart cards, shelf labels, battery and memory devices among others. Within E Ink Holdings' portfolio, Fast-Field-Switching (FFS) technology based LCD products that are sought after in Tablet PCs and other mobile devices are also available. At E Ink's booth, several examples of e-paper and LCD products as well as end devices are showcased as well as next-generation display technologies that will allow designers to think outside the box.

**F1.2: 2D MEMS Scanning Mirror as a Technology Platform for Many Possible Applications** (11:15)

Itamar Berchman  
*Maradin Technologies, Maradin, Ltd., Israel*  
Booth 744

This presentation will describe how it is now possible to develop touch sensors designed for high-volume, glove-operable, and ruggedized applications (medical tablets, portable industrial touch computing and white goods) by using ITO photolithography.

**F1.3: uNVISable and NVISable Military AMLCD LED-Backlight Technologies** (11:30)

Eric Lemax  
*Wamco, Inc., Fountain Valley, CA*  
Booth 581

In response to the emerging demand for PDAs and laptops in military application, Wamco has patented and developed a unique LED that provides energy spectrum in full compliance with the military requirements set in MIL-STD-3009, allowing full compatibility with night-vision-goggles operation.

**F1.4: OLED-Based Binocular Interactive See-Through HMD**

Rigo Herold  
*Fraunhofer IPMS, Dresden, Germany*  
Booth 1371

Fraunhofer IPMS will show the World's first lightweight interactive binocular see-through head-mounted display based on OLED technology. In contradic- tion to previous reported bulky monocular eye-tracking HMDs based on OLED-on-CMOS technology, this system meets the requirements of light- weight eyeglasses with high functionality. The new head-mounted display brings augmented-reality technology to the consumer marketplace.
F2.1: AGC Glass Technology Solution to Highly Functional Display Needs  
Takahiro. Ikezaki  
AGC Electronics, Asahi Glass Co., Ltd., Tokyo, Japan  
Booth 837

The technology development for high-end displays and value-added products, as typified by smartphones and tablet PCs, has been continuously required in the current marketplace. Glass has been also expected to be a multifunctional material for realizing new features of the final product. This presentation describes glass materials and characteristics that realize market-required functions. AGC provides a total solution, including surface treatment and process performance.

F2.2: Flexible Glass: The Combination of Material and Process Innovation  
Jill VanDewoestine  
Corning Incorporated, Corning, NY USA  
Booth 123

Corning's ultra-slim flexible glass combines the intrinsic thermal and mechanical stability of glass with outstanding sheet attributes of fusion substrates while providing a path to thin-device form factors and revolutionary manufacturing technology.

F2.3: Front-Screen-Enhancement Technologies for Industrial and Automotive Applications  
Scott Kelly  
Kyocera Display Corp., Dulth, GA USA  
Booth 619

Kyocera Displays America presents its LCD products with a focus on optical lamination capabilities. The presentation will also touch upon options for improving appearance, performance, ruggedness, and reliability.

F2.4: ZenonFilm® Optical Films for Enhanced Image Quality  
Brian Cail  
ZENON Corp., Louisville, KY USA  
Booth 181

ZEON will highlight the technical features of its ZeonorFilm® optical film for touch panels - non-rainbow appearance film for film-based touch sensors; OLED displays - films for improved viewing angle and improved backlight efficiency; 3D displays - unique ZD-series film enabling improved viewing angle and full resolution vs patterned retarders.
F3.1: Liquid Optically Clear Adhesives for Display Applications

D. Liu
Henkel Corp., Shanghai, China
Booth 336

This presentation will provide a comprehensive overview on the latest liquid optically clear adhesive (LOCA) for touch panels and LCD assembly, including materials, application process, and performance, the recent technology trend of TFT-LCD polarizers, and Henkel’s new LOCAs with ultra-low viscosity and excellent performance for next-generation polarizer applications.

F3.2: Transparent Polymer Electrodes Made of CLEVIOS (3:45)

A. Elscher
Heraeus Precious Metals GmbH & Co. KG, Hanau, Germany
Booth 742

Clevios P is a waterborne, ready-to-use dispersions of PEDOT:PSS for coatings on flexible or solid substrates to form transparent electrodes. The high-conductive material can be deposited as thin films by employing various multiple-coating techniques. The film’s conductivity can be invisibly structured making these electrodes very attractive for applications such as touch-panel screens.

F3.3: Photonic-Crystal Display Materials (P-Ink) (4:00)

Andre Arsenault
Opalux, Inc., Toronto, Canada
Booth 721

Photonic Ink (P-Ink) uses ordered internal nanostructures to generate vivid reflective colors, electrically tunable over the whole rainbow spectrum. Using printed electronic technology, it is applicable to both rigid and bendable displays, features competitive costs, low power consumption, bistability, and can be readily segmented or pixilated. It is ideal for colorful display applications of all types, settings, and sizes.

F3.4: Micro-Coaxial Transmission-Line Construction (4:15)

Gregory Young
I-PEX USA LP, Austin, TX USA
Booth 721

The successful introduction of the iPad from Apple in 2010 has created a wave of new Pad devices in 2011. VPW-RGBW display technology is targeting the optimized use of power by leveraging the fourth primary component white (W) in RGBW together with content-based backlight control (CABC) and an ambient light sensor (ALS) for a new generation of high-resolution, excellent contrast, and a ultra-low-power Smart VPW Display for indoor and outdoor mobile applications.
F4.1: Projected-Capacitive Touch: Benefits, Applications, and Overcoming Design Challenges (9:00)

David Nolte
Ocular LCD, Dallas, TX USA
Booth 855

Durability, enhanced optical clarity, and true multi-touch capabilities of projected-capacitive (PCAP) touch panels are just a few of the many benefits offered by this robust touch interface. Due to the many benefits, applications in a wide variety of industries are incorporating the all-glass touch technology of PCAP into their products. Expanding applications and creating new designs also creates challenges that need to be identified and overcome.

F4.2: Combined Pen and Multi-Touch Converts Tablets into Productivity Devices (9:15)

Gary Baum
N-trig, Saba, Israel
Booth 305

The combined solution of pen and multi-touch expands mobile computing to enable previously unimaginable levels of productivity, creativity and interactivity. In this presentation, N-trig will discuss current and potential applications of pen and multi-touch and demonstrate the features and capabilities of its newly enhanced DuoSense pen.

F4.3: The Challenges of Capacitive Multi-Touch for Large Displays (9:30)

Stephen Chan
Solomon Systech Ltd., Hong Kong
Booth 111

Capacitive-touch sensing has been the most preferred user-interface technology for the past few years. The demands for bigger screen, more fingers, lower power consumption, better noise immunity, and higher frame scan rate have been the driving forces for enhancing capacitive-touch controllers. Capacitive touch sensing has been the most preferred user interface technology for the past few years. The demands for bigger screen, more fingers, lower power consumption, better noise immunity, and higher frame scan rate have been the driving forces for enhancing capacitive touch controllers.

F4.4: Touchdown Multi-Touch (9:45)

Candice Yang
eGalax_EMPIA Technology, Inc., Taipei, Taiwan
Booth 381

EETI designs, develops, and markets a wide portfolio of standard solutions such as resistive, surface capacitive, surface acoustic wave, and infrared solutions, as well as leading-edge solutions such as projected-capacitive touch controllers for Microsoft Windows 7 and Windows 8 Logo devices.

BREAK (10:00–10:45)
F4.5: Overcoming Design Challenges in Specialty Displays and Applications (10:45)

Michael Woolstrum
Touch International, Austin, TX USA
Booth 749

Navigating through design constraints for advanced applications can be challenging, and sorting through competing touch technologies and display-enhancement options can make the process even harder. Learn how to plan for success, identify potential display disasters, and optimize your hardware selections for a flawless finish.

F4.6: Ultra-Large-Format Multi-Touch Projected-Capacitive Touch Sensors for Public Use (11:00)

Ian Cosby
Zytronic, Tyne & Wear, UK
Booth 749

Zytronic will exclusively launch a new variant of its proprietary PCT™ projected capacitive technology at SID 2012. It will enable 10-point multi-touch operation on ultra-large-format screens (up to 72 in. and beyond) in a form that is both rugged and easily configurable to customer specifications. The screens will be of particular interest for public-use applications such as interactive digital signage, self-service vending, and touch tables.

F4.7: Selecting a High-Performance Multi-Touch Display (11:15)

Keith Loop
3M Touch Systems, Methuen, MA USA
Booth 761

This presentation will review the three key factors for selecting high-performance multi-touch displays — touch-screen technology, display-panel characteristics, and industrial-design considerations. Since interactive commercial applications require more than off-the-shelf consumer multi-touch solutions, these three factors are integral to choosing multi-touch displays that reliably support the broad range of challenging interactive applications that include casino gaming, digital signage, retail product selectors, hospitality, entertainment, and exhibits/museums.
F5.1: Extruding Coating: A Scalable Solution (3:30)

Miguel Friedrich
n-Tact, Dallas, TX USA
Booth 310

nTact is the renowned pioneer of Extrusion Coating, a slot-die based deposition technology widely used in AMLCD production. The company has broadened its product line to adapt the proprietary process to meet the needs of emerging markets. All of the nTact’s coating products are optionally compatible with inert-gas processing, and the systems provide the ability to deposit highly uniform, submicron layers of organic materials used in OLED displays and lighting applications, planarization and barrier layers, photovoltaic materials, and suspensions and slurries. nTact has recently launched two new products which allow researchers to develop a process on a lower-cost R&D platform, while providing a direct scalable path to large-area substrates and high yields in a volume-manufacturing environment.

F5.2: R&D Ink-Jet Printer for Electronic Materials (3:45)

Tim Luong
FUJIFILM Dimatix, Inc., Santa Clara, CA USA
Booth 966

FUJIFILM Dimatix’s MEMS-based technology lets ink-jet printing create products such as displays and electronics, RFID antennas, smart tags, DNA arrays, smart packaging, and wearable electronics. The Dimatix Materials Printer DMP-2831, a low-cost cartridge-based piezoelectric ink-jet printing system that enables direct deposition of functional fluids, has been accepted as the industry standard for the accelerated development of ink-jet solutions in electronics, displays, life sciences, photovoltaics, and other industries.

F5.3: Solutions for AMOLED Television (4:00)

Stephan Alexander
IGNIS Innovation, Ontario, Canada
Booth 213

AMOLED televisions have incredible image quality, are razor thin, and also low in power. But there are challenges due to problems with both the TFT backplane and OLED material. IGNIS will present solutions, based on existing technology and equipment, that enable the mass production of AMOLED televisions.
F5.4: New Generation of Imaging Colorimeter and Spectrophotometer

Pierre Boher
ELDIM SA, Hérouville Saint-Clair, France
Booth 560

Imaging colorimeters are now widely used to display control in a great variety of applications. ELDIM has recently developed a new generation of video colorimeters with better accuracy and efficiency that allows not only color and luminance measurements. New parameters such as polarization state of the light or the spectral radiance can be obtained, in addition to standard luminance and color mappings. Improved spatial resolution and better control of the emissive angles can be also obtained thanks to innovative optical designs. The new systems and their new capacities will be presented in detail with characterization examples on different types of displays.