MEMS Industry Group Showcases MEMS in the Machine at SEMICON West

MEMS Industry Group [1] (MIG) will highlight advancements in micro-electromechanical systems (MEMS [2]), the tiny micro-machines providing intelligent sensing and actuation to mobile phones, video games, automotive safety systems, heart monitors, insulin pumps, smart home-automation systems, and a host of other applications, at SEMICON West 2011 [3] (July 12-14, 2011, Moscone Center, San Francisco). Joined by MIG member-companies who are driving a market predicted to reach US$14 billion by 2014, according to Yole Développement, MIG invites SEMICON West attendees to experience MEMS technology through real-world applications, a MEMS exhibition area, and a conference session on moving from lab to fab and achieving high-volume production.

“MEMS in the Machine” DemoZone

MIG will present its inaugural “MEMS in the Machine” DemoZone at the Extreme Electronics Stage, South Hall at SEMICON West, July 12 from 12:45-2:00 p.m. Highlighting the versatility of MEMS at the application level, MIG’s DemoZone will feature a number of products from Freescale Semiconductor [4]: Amazon Kindle DX; Chumby One-based walking robot; FitBit; Sertec Sistemas’ low-power tracking device; and Gauss Industria’s MAP Sensor. The DemoZone will also include a pressure sensor for aircraft flight testing and an accelerometer for automotive safety testing from Meggitt [5] (Endevco); a gas chromatograph from MEMSCAP [6]; a MEMS Thermal IR sensor from OMRON [7]; a MEMS scanning mirror in a pico projector from Touch Micro-System Technology [8] (Walsin Lihwa Corporation); and a MEMS wafer from Okmetic [9].

Chipworks [10]will give MIG’s DemoZone attendees an inside look at the MEMS inside some popular consumer devices: Samsung Galaxy Tab, Apple iPhone and Nintendo 3DS.

MEMS on Display at SEMICON WEST

MIG members will be well represented in the exhibition at SEMICON West. The following companies will co-exhibit with MIG [11] in Booth #2734 in the Extreme Electronics TechZONE, South Hall: Amerimade Technology [12], Akrion Systems [13], Brewer Science [14], IMT [15], MEMSCAP [6] and XACTIX [16].

MIG members and partners who are also exhibiting at SEMICON West include: Applied Materials, Inc. [17]; AEPI, the Grenoble-Isere Economic Development Agency [18]; Bullen Ultrasonics [19]; CEA-Leti [20]; Chipworks [10]; ClassOne Equipment, Inc. [21]; EV Group [22]; Expertech [23]; GLOBALFOUNDRIES [24]; imec [25]; OEM Group [26]; Oxford Instruments [27]; Plan

Optik AG [28]; Plasma-Therm [29]; Rite Track [30]; Semefab [31]; Silex Microsystems [32]; SPP Process Technology Systems UK Limited [33]; SUSS MicroTec [34]; TECNISCO [35]; Yield Engineering [36]; and Yole Développement [37].

"Future of MEMS" Session

Karen Lightman [38], managing director of MIG, will moderate a special session on MEMS manufacturing: "The Future of MEMS: Solutions for Moving from a Niche to a Mainstream Business [39]" (July 12, 10:30 a.m.-12:40 p.m. PDT, Extreme Electronics TechXPOT, South Hall). Speakers will include MIG member companies Bosch Research and Technology Center [40], GLOBALFOUNDRIES [24], imec [25], Teledyne DALSA [41], and Yole Développement [37] discussing manufacturing processes and technologies optimized for faster time-to-market and ramp-to-volume.

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