

MEMS Roadshow

Embracing the Future

Agenda

12:30pm

"Latest Advances in Deep Reactive Ion Etching (DRIE) for MEMS Manufacturing"

Janet Hopkins – Surface Technology Systems plc.

13:10pm

"Dry MEMS release using HF Vapor technology - equipment design and process challenges"

Paul Hammond, Primaxx, Inc

13:55pm

"High Performance Bonding for MEMS and 3-D Interconnect Applications"

Shari Farrens, Ph.D. – SUSS MicroTec, Inc

14:35pm **BREAK**

14:50pm

"Highly Selective MEMS Release Using Silicon as a Sacrificial Layer"

David Springer – XACTIX, Inc

15:35pm

"Overcoming Challenges in High Aspect Ratio Lithography"

Keith Cooper - SUSS MicroTec, Inc.

16:15pm

."STS' ICP Technology for MEMS related materials"

Darren Hughes – Surface Technology Systems plc

16:55pm **CONCLUSION**

17:00pm **REFRESHMENTS**



Presenters



Dr Shari Farrens

Dr. Shari Farrens is Chief Scientist for Wafer Bonders at SUSS MicroTec. Dr. Shari Farrens is the inventor of plasma activated substrate bonding and holds several patents for this enabling technology. Dr. Farrens has authored and co-authored over 100 publications on SOI, wafer bonding and nano-technology. With over 15 years of hands-on, worldwide experience in academia and industry is considered an expert on MEMS and wafer to wafer bonding technologies. Her career has also included serving as an Assistant Professor at University of California, Davis and also as a Senior Process Engineer at SiGen Corporation, San Jose, CA.



Keith Cooper

Keith Cooper is Technical Marketing Manager for the Lithography Division at SUSS MicroTec. Prior to joining SUSS, Keith worked as a process development engineer for both Texas Instruments and Mostek (now ST Microelectronics) in Dallas, Texas. Since joining SUSS in 1985, initially as a product and applications engineer for lithography tools, he has held leadership positions in numerous company projects, including Product Manager for X-ray Lithography Systems, Technical Marketing Specialist for Advanced Packaging, Business Unit Manager for Flip Chip Bonders, and most recently, Sales Engineer for the Mid-Atlantic Region. He holds a bachelor's degree in Chemical Engineering and a Master of Arts degree.



Dr Janet Hopkins

Janet Hopkins studied Physics and Chemistry of Materials at Durham University, and gained a PhD in Plasma Chemistry. Janet joined STS in 1995 as a process engineer with the silicon etch group, and worked on development of ASE[®] process with Robert Bosch GmbH. She was promoted to ASE[®] development leader and more recently R&D Manager, and has written numerous technical papers on DRIE Si processing, and is named on STS' key ASE[®] patents



Darren Hughes

Darren Hughes studied Chemistry at the University of Glamorgan. He started work in research and development for an international battery maker in 1995. In 2000, joined Surface Technology Systems' Marketing Department, and was promoted to Sales Support Manager in January 2003. Since December 2004, he has been responsible for STS sales within Southern Europe, Scandinavia and the Middle East.



Dr David Springer

David joined XACTIX in January 2002 as executive VP and became President a year later. Before joining XACTIX, David was a founder and President of DASYS, Inc. an electronic design automation company specializing in behavioural synthesis. DASYS was subsequently acquired by Cynapps, Inc. which later became Forte Design Systems. David received his Bachelors, Masters and Ph.D. in Electrical and Computer Engineering from Carnegie Mellon University.

Paul Hammond

Paul Hammond became President and CEO of Primaxx in September 2005 after 3 years as the company's VP of Sales and Marketing. Prior to joining Primaxx, he was President of American Tech Manufacturing Corp, a manufacturer of high speed IC inspection and conditioning equipment to the "back-end" of the semiconductor industry where he was responsible for a number of innovative product developments including the integration of vision technology for high speed component inspection. Other positions previously held by Paul include Director of Sales and Marketing of Sono-Tek Corporation, and Business Unit Manager for the Crystal Growth and MOCVD division of the Cambridge Instruments Group. Educated in the United Kingdom, Paul graduated with a B.S. in Applied Physics from Brunel University in London.