



Tuesday, May 15, 2012 (day one)

- 7:30 Registration
- 8:30 Welcome to the Conference – ASMC 2012 Conference Chairs:  
Jennifer Bragg, Entegris and Larry Pulvirent, GLOBALFOUNDRIES  
ASMC 2011 Best Paper and Best Student Paper Awards
- 8:45 Keynote: Michael Campbell, VP Engineering, Qualcomm  
*“Semiconductor Customer Perspective”*

#### Session 2 - Factory Optimization I

Chairs: Prashant Aji, KLA-Tencor; Stefan Radloff, Intel Corporation

Semiconductor equipment and manufacturing is increasingly complex and driven by strict economic constraints. It is vital for IC production to improve efficiency, control costs, and be good environmental stewards. This session discusses new approaches to factory optimization based on data analysis and simulation.

- 9:50
- 2.1 Innovative Approach to Identify Location of AMC Source in Cleanroom by Inverse Computational Fluid Dynamics Modeling  
James J.J. Hwang, Kevin Chou, Chi-Ming. Yang, John Lin, Arthur T.S. Chuang, Taiwan Semiconductor Manufacturing Corporation; J.M. Tsao. C.F. Chen, S.C. Hu. National Taipei University of Technology

- 10:20
- 2.2 Managing Variability within Wafertest Production by Combining Lean and Six Sigma  
Dietrich Eberts, Kristina Wilhelm, Infineon Technologies; Sophia Keil, Rainer Lasch, Dresden University of Technology; Oliver Buhmann, University of Applied Sciences

10:45 Break

- 11:00
- 2.3 Potential of Use of Condition Based Monitoring in Semiconductor Equipment (student)  
Michael E. Cholette, Dragan Djurdjanovic, University of Texas at Austin; John Rasberry, Novellus Systems

- 11:25
- 2.4 MSC-Clustering and Forward Stepwise Regression for Virtual Metrology in Highly Correlated Input Spaces (student)  
PKS Prakash, Peter Hung, Seán McLoone, National University of Ireland Maynooth; Andrea Schirru, University of Pavia

- 11:50
- 2.5 Rules of Automation for 200mm Semiconductor Manufacturing Environment  
Harald Heinrich, Johannes Sturm, Infineon Technologies; Arthur Deutschländer, University of Applied Science Stralsund

12:15 Networking Luncheon