Call for Papers

8th International Conference on Modeling and Analysis of Semiconductor Manufacturing (MASM) 2012 and INTERNATIONAL SEMATECH MANUFACTURING INITIATIVE (ISMI) MMC/IE Council Meeting

Berlin, Germany

December 9th-12th 2012

The 2012 International Conference on Modeling and Analysis of Semiconductor Manufacturing (MASM) aims to again be a forum for the exchange of ideas and best practices between researchers and practitioners from around the world involved in modeling and analysis of high-tech manufacturing systems. We are convinced of the worth and importance of the continuation of the MASM events held in Tempe, Arizona in 2000 and 2002, Singapore in 2005, Miami, Florida in 2008, Austin, Texas in 2009, Baltimore, Maryland in 2010, and in Phoenix in 2011.

The MASM 2012 conference will be fully contained within the Winter Simulation Conference 2012 (WSC 2012), the leading conference in discrete event simulation. WSC 2012 features a comprehensive program ranging from introductory tutorials to state-of-the-art research and practice. WSC 2012 will take place in Berlin, Germany. All attendees of the MASM conference will register for WSC 2012 at the same cost. All participants of WSC 2012 can attend MASM 2012 sessions.

We are looking for high-quality research at all levels of semiconductor manufacturing. At the operational level, improved equipment and process control and optimized scheduling and transportation policies must be studied. At the tactical level, better capacity planning and qualification management are expected. At the strategic level, demand planning, factory economics and supply chain efficiency must be improved to support the business. Moreover, better integration of decisions taken at different decisions levels is becoming a must. These various goals will be attained through new advanced control and statistical methods, computing techniques and operations research methods. We invite participants to present on
all topics related to modeling and analysis that will help address these challenges. While the MASM conference is mostly focused on the current semiconductor industry state-of-the-art, neither presenters nor attendees need to be in the IC industry to participate. We are interested in any methodologies, research, and/or applications from other related industries such as TFT-LCD, flexible displays, bio-chip, solid state lighting (LED) and photovoltaic (PV) that might also share or want to share common and new practices.

The conference includes tutorials and related software demonstrations within the Winter Simulation Conference 2012. A broad range of papers is sought, including theoretical developments, applied research, and case studies. Interested individuals within academia, government agencies, equipment suppliers, manufacturers, students, contractors, and other interested parties are encouraged to participate.

MASM will feature a keynote talk by Thomas Sonderman, VP of Manufacturing Technology, GLOBALFOUNDRIES, USA.

The December INTERNATIONAL SEMATECH MANUFACTURING INITIATIVE (ISMI) Q4 Manufacturing Methods & Industrial Engineering (MMC/IE) Council meeting will be held in conjunction with the MASM 2012 conference. It provides a forum for ISMI members to share best practices for improving manufacturing productivity. The meeting topics address the daily challenges faced by engineers and managers in the semiconductor business. These workshops are highly interactive, uniting suppliers, and academic experts with fab owners to solve productivity issues. Participants give and receive feedback on top production issues and benchmark performance metrics, share best-known methods, and discuss 'real life' maintenance, engineering and WIP management challenges. The meeting structure protects IP by allowing suppliers to present sensitive information individually to IC manufacturers without other suppliers present.

Conference Location: MASM 2012 will be held in beautiful Berlin, Germany at the Hotel Intercontinental which is located in the heart of the city, in the triangle formed by the Kurfürstendamm Boulevard, the government quarter and Potsdamer Platz. The Berlin Zoo and Berlin’s largest park, the Tiergarten, are just around the corner. The 37 conference and 558 modern sleeping rooms and suites provide the perfect home base for the attendees because the hotel is surrounded by the infrastructure of a metropolis and is easy to reach by plane, rail or car. Hotel amenities include a Michelin-starred gourmet restaurant, a bar, a 1,000 m² design award winning full service vitality club and spa with indoor pool, and a 24-hour fitness centre.

Conference Organizer
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**Paper Submission:**

Please follow the WSC 2012 Author Kit to prepare your MASM 2012 paper at [http://www.wintersim.org](http://www.wintersim.org).

**Important Dates:**

- **Deadline for Paper Submission:** April 2\textsuperscript{nd} 2012
- **Notification of Acceptance:** June 4\textsuperscript{th} 2012
- **Camera Ready Paper due:** July 16\textsuperscript{th} 2012