



## 2<sup>nd</sup> International Conference on CMOS Variability

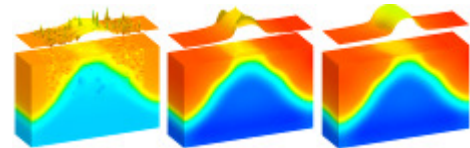
### *“Living with Variability”*

Book the Date! 12&13<sup>th</sup> May 2009  
Savoy Place, London, UK WC2R 0BL

#### *Conference Overview:*

At ICCV2007 we raised expert and corporate awareness of this increasingly important issue with an internationally acclaimed speaker list. Two years on we ask:

***How prepared is your organisation to understand the impact of variability and manage the impact at 45nm and below?***



This is Europe’s only dedicated conference on CMOS Variability which explores the far reaching implications for designers, technology developers and manufacturing engineers. ICCV2009 is organised by NMI in collaboration with the nanoCMOS Consortium lead by the world leading expert in CMOS variability ; Professor Asen Asenov.

### “Living with Variability” - Are You Ready?

Targeted at chip and device designers, technology\_developers, EDA suppliers, Product Engineers and Wafer Foundries, this is a truly unique opportunity to gain crucial insights. Sessions from the world’s leading experts will explore the issues, discuss the options, approaches and share techniques to meet the challenges head-on.

- ***Designing for Variability: How does design approach have to change when the underlying technology becomes unreliable and how do EDA tools adapt?***
- ***What impact does variability have on interfacing the Foundry ?***
- ***How will the industry characterise and model variability?***

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Theme: Understanding Designing for Variability ( DfV )

8:30: Registration and Refreshments

**Welcome & Introduction**

9:30am **Paul Jarvie**, National Microelectronics Institute, "Welcome to ICCV2009"

9:50am **Derek Boyd**, National Microelectronics Institute, Conference Opening Address

**SESSION 1: The IDM & Fabless perspective**

10:10am **Key Note: Dr Kelin Kuhn** ,Intel, "Variation in 45nm and implications for 32nm and beyond"



10:55am **Coffee Break**

11:15am **Krisztian Flautner**, ARM , "Life on the Treadmill"

11:45am **Professor Asen Asenov**, University of Glasgow , "Statistical variability and reliability in the next generation CMOS technologies and the ITRS response"

12:15pm **Buffet Lunch & Networking**

**SESSION 2: Embracing DfV in the Foundry**

1:45pm **Key Note: Dr Sani Nassif**, IBM, "Variability beyond 45nm: design impact and countermeasures"



2:30pm **Davide Pandini** , ST Microelectronics, "Statistical Static Timing Analysis: A New Approach to Deal with Increased Process Variability in Advanced Nanometer Technologies"

3:00pm **Coffee Break**

3:20pm **Nam Sung Kim**, Chartered Semiconductors , "SRAM Variability: Foundry Perspectives"

3:50pm **PANEL: Are we ready for DfV at sub 32nm ?**

Chair : **Professor Asen Asenov**

4:30pm **Conference Close ( DAY 1 )**

7:00~10:00pm **Conference Dinner : Savoy Place, London, UK , WC2R 0BL**

Theme: *Facing up to Variability*

8:30am Registration and Refreshments

**Welcome & Introduction DAY2**

9:30am **Paul Jarvie**, National Microelectronics Institute, "Welcome to ICCV2009"

**SESSION 1: The Era of Variability: Are EDA Tools ready ?**

9:40am **Key Note: Jean-Marie Brunet**, Mentor Graphics,



"Managing Variability in next generation design methodologies and tools "

10:25am **Andrew Appleby**, NXP Semiconductors, "Realising a 45nm System on Chip for digital TV in the age of variability"

10:55am **Coffee Break**

11:15am **Dr. Ahsan Bootehsaz** , Synopsys, "Designing with variability: An EDA perspective"

11:45am **Miguel Miranda**, IMEC, "Design for Variability efforts in Europe - REALITY project "

12:15pm **Buffet Lunch & Networking**

**SESSION 2: Delivering Product Performance in the face of Variability**

1:15pm **Sharad Saxena** , PDF Solutions, "Variability Characterization Infrastructure for Nanometer-Scale Technologies"

1:45pm **Philippe Hurat**, Cadence, "Analyzing, preventing and correcting the impact of manufacturing variation in advanced node IC design, including physical and electrical effects induced by Litho, CMP and Stress"

2:15pm **Coffee Break**

2:35pm **Jeff Watt**, Altera, "Variability-Aware Product Development in a Fabless Environment"

3:05pm **Patrick Drennan**, Solido Design Automation, "Design for Variability in Analog / Mixed-Signal Circuits"

3:35pm **PANEL: "If Variability is real: Are we doing enough about it?"**

Chair : **Ian Phillips** , ARM

4:15 Conference Close & Wrap up

## Conference Registration:

Register on-line using any major credit card from the NMI website [www.nmi.org.uk](http://www.nmi.org.uk).  
If you have any problem with registration please contact NMI Conference Support by email to [adminsUPPORT@nmi.org.uk](mailto:adminsUPPORT@nmi.org.uk) , or call +44 (0)1506 401210

Ticket-type	Fee - NMI member	Fee (non-member)
Please note all prices exclude VAT at 15%		
Standard ticket - 1st April onwards	£545	£745

Delegate rate includes attendance of the full two day Conference, Conference Networking Dinner, refreshments, buffet lunch on each day, printed & CD electronic copy of Conference proceedings

Delegates can check whether their organisation is an NMI member from our website

We will confirm your on-line registration and payment with an email and you will receive an electronic ticket. Your payment must be made prior to the event date. Registration is not complete until you have received confirmation.

## Conference Venue:

**Savoy Place , London, United Kingdom W2CR 0BL**

For travel details see [www.savoyplace.co.uk](http://www.savoyplace.co.uk)



## Accommodation for Conference Delegates:

Delegates will benefit from preferential rates at selected nearby hotels.  
For details contact [adminsUPPORT@nmi.org.uk](mailto:adminsUPPORT@nmi.org.uk)

## Delegate Access & Additional Requirements:

Vegetarians are catered for, however if you have any other dietary or access requirements please notify us at the time of registration using the special requirements box.

## Conference Dinner:



Included in your delegate rate is the fantastic opportunity to join a vibrant and exciting Networking Dinner in the spectacular Savoy Place Riverside room with outstanding panoramic views of London.

## Acknowledgements:

NMI would like to acknowledge the support of the ICCV2009 Conference Technical Advisors – Professor Asen Asenov (University of Glasgow) and Mark Redford (Cambridge Silicon Radio)

## Cancellations

- All cancellations must be made by email to [adminsupport@nmi.org.uk](mailto:adminsupport@nmi.org.uk) by 12th April 2009.
- Such cancellations will receive a refund subject to a handling and administration charge of £40 + VAT per ticket.
- Cancellations post 12th April 2009 will not be eligible for a refund
- NMI reserves the right to make changes to the programme, location and/or speakers without prior notice.
- NMI will not offer refunds to delegates due to terrorist alert or incident unless the conference is cancelled. In this instance, NMI will retain up to 50% of the conference fee to cover marketing, administration and delegate registration costs.

## About NMI

### “Strengthening the Business of Microelectronics & Driving the Processes of Innovation”

The National Microelectronics Institute (NMI) is the trade association representing the semiconductor industry in the UK and Ireland. NMI welcome opportunities for collaboration from Global Partners. Our aim is to help build and support a strong semiconductor community by acting as a catalyst and facilitator for commercial and technological development. A not-for-profit organisation funded by its members, the NMI has a membership that spans the supply chain and includes fabless semiconductor manufacturers, IDMs, foundries, design services, IP providers, research/ academic institutions and business associates.

The NMI's work includes:

- Encouraging innovation, communication and collaboration through networking, brokering and sign-posting activities.
- Representing the microelectronics sector to government, policy makers and regulators.
- Supporting skills development, education and training.
- Helping to improve operational efficiency through benchmarking and best practice initiatives.
- Providing an industry specific information flow.

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