National
Microelectronics
Institute

Analogue/Mixed-Signal/RF Innovation Network

"Digitally Assisted Analogue"

Thursday 22nd October 2009, Dublin

National Microelectronics Institute

Building and Uniting a Strong Microelectronics Community

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Analogue/Mixed-Signal Innovation Network

Thursday 22nd October 2009, Dublin

09:00 Registration

Refreshments, Networking & Sponsor Table-Tops

09:45 ***Welcome & Introduction***

Robin Kennedy, NMI

John Jennings, Xilinx / MIDAS

Stephen Crosher, Moortec Semiconductor - Chairman

Housekeeping

- In case of…
- Mobile devices…
- Who to speak to…

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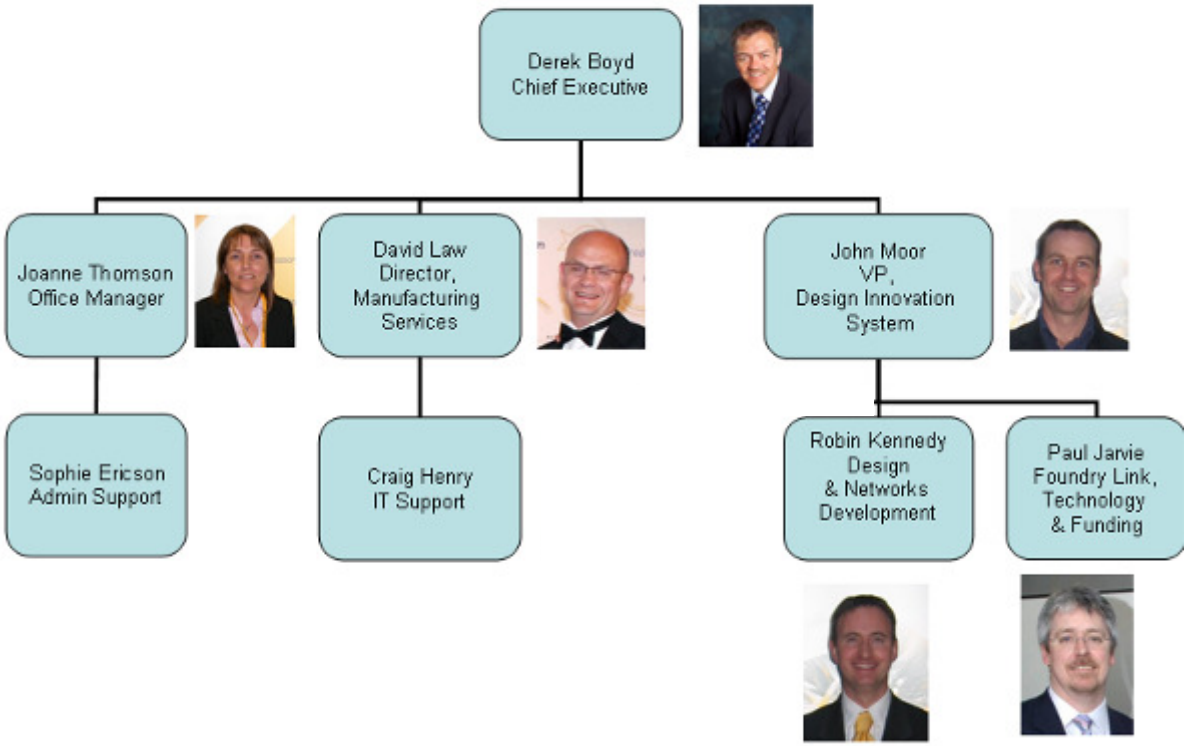
About the NMI

- A Not-for-Profit Organisation Funded Primarily from Membership
- Strong & Representative Board of Directors

Infineon | NMI CEO | APTINA | Powervation | National semi | Freescale | IR | Newcastlle Uni | CSR | Imagination Technologies

- Domain Knowledge - Staff Recruited from Industry



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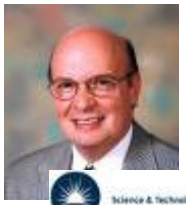

Dr. John McLean

Division Head

Science & Technology Facilities Council
Rutherford Appleton Laboratory

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NMI Update

- "UK Inside" – Sunday Times Article
  - illustrates how UK firms are just under the bonnet of many of todays iconic products - the iPhone is a great example.

- Government Call to Action
  - Ministerial Meeting at Department for Business, Innovation and Skills
- Merger with SSSF
  - Scottish Semiconductors Suppliers Forum

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Annual Dinner 2009

NMI Annual Dinner and Awards Ceremony November 5th 2009, London

NMI is very proud to announce details of its industry awards an dinner celebration to be held at the Jumeirah Carlton Tower, Lon can make an application for an award by following instruction Accommodation is available at a special rate to all attendees.

Enjoy an evening of celebration

This is a prestig premier event in calendar stakeholders fro our industry tog an evening of go fine wine entertainment. great opportu network with p ideal for mee friends. Last event was once again a great success with over 300 guests a from across the industry and around the world - as it gets bi

Make an Application for an Award

NMI would like to invite organisations to submit entries for awards - details of how to apply plus accompanying guidelines can be found in the application form available by clicking the links below. Photographs of last years winners can be viewed here

- Start up of the Year
- Innovation
- Emerging Technology Company of the Year
- Low Power Design
- The Green Award for Environmental Awareness
- Manufacturing Site of the Year
- Young Engineer
- Education and Training
- Contribution to Industry

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NMI Update

- ESC Conference & Exhibition
  - 6-8th October, Farnborough
  - **The State of Microelectronics**
    Moderated by: Rich Nass of Embedded.com and EE Times
    Speakers:
    Ollie Althorpe , ST Microelectronics
    Tony King-Smith, Imagination Technologies
    Geoff Lees, NXP Semiconductors
    Mark Robson, Freescale Semiconductor
    Date: Wednesday, 7 October

    Want to gain real insight into the latest trends in microelectronics and embedded device technology? Then this informal session with industry experts is a must-attend for you. Come to hear representatives of leading embedded semiconductor vendors discuss where the industry is heading.
  - This session was organised in collaboration with the National Microelectronics Institute.

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NMI Update

- Innovation Networks
  - Build on Technical Networks
  - Application Themes
  - Innovation Network Advisory Groups
- Events
  - Electronics for the Low-Carbon Economy 8th September
  - System-Level Design 24th September
  - **Analogue-Mixed Signal 22nd October**
  - NMI & GSA Supplier Forum 4th November
  - AGM/Annual Dinner 5th November
  - Design for Manufacture 12th November

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NMI Update

Preliminary 2010 Programme

Date	Event
Feb 2010	Analogue/Mixed-Signal/RF Innovation Network
Feb 2010	Quality & Reliability Excellence Network
Mar 2010	Operations Forum Meeting
Apr 2010	Packaging Innovation Network
May 2010	System-Level Design/Verification Excellence Network
Jun 2010	Embedded Software & Systems Innovation Network
Jun 2010	Low-Carbon Innovation Network
Sep 2010	International Design Conference
Oct 2010	Operations Forum Meeting
Nov 2010	Design for Manufacture Excellence Network
Nov 2010	NMI Annual Awards Dinner

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Low Power Wireless Transceiver Architectures with Digitally assisted RF
Philip Quinlan/Hyman Shanan, Analog Devices

High performance LDMOS RF & HV technology - 0.15µm foundry design kit
Rainer Kaesmaier, LFoundry

Break

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Verification Techniques for Advanced Mixed-Signal Design
(A 90nm Transceiver IC designed using VHDL-AMS)
Steve Morris, Innovision Research & Technology

Digitally Enhancing Dynamic Linearity in High-Resolution A/D Converters
Joao Goes, Silicon & Software Systems

12:45 Lunch & Networking

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14:00

Beyond Digitally Assisted Analog

TSMC, Wim-Jan Brummelman

Advanced Digital Control of High Efficiency Analogue Switch-Mode PS

Simon Effler, University of Limerick

Calibration of Current Steering D/A Converters

Georgi Radulov/Patrick Quinn, Xilinx

16:00 Close

Continued Networking

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Thank you for attending

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