

National
Microelectronics
Institute



**“Quality & Reliability”
Technical Network Event**

Exhibitor Handbook

5th February 2009 ,
UNISEM Europe , South Wales

Event Sponsor



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1 Introduction

Following the re-branding of FACR to Q&R (Quality & Reliability) at the Wolfson 2008 event, we are pleased to announce our first Q&R network event, to be hosted by UNISEM. As the challenge of Time to Market and demands of Customer quality get tougher, this event will look at the new approaches that are being adopted by companies such as NXP as the Industry moves from Stress Based to Knowledge Based qualification methodologies. This new approach which embraces “Designing-in-Quality”, could offer your company major advantages such as fewer parts needed for Qualification, elimination of Long product Qualification times and improved prediction of Field reliability.

The Q&R Network is key within our **FOUNDRY LINK** activities at NMI, which include DfM (Design for Manufacture)and IC Packaging. (For details see www.nmi.org.uk)

To complement the event proceedings, table-top exhibitions will be available from leading service providers listed in this companion handbook. There will also be an opportunity to tour the UNISEM facility during the extended Lunch break.

I would like to warmly welcome you to our Network, and look forward to another exciting and fruitful event hosted kindly by our Event Sponsors UNISEM Europe.

2 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.

Its 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.

More information can be found at: www.nmi.org.uk

3 List of Exhibitors

<i>Company</i>	<i>Table Top No#</i>
CEMMNT	1
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MASER Engineering	3
Optocap	4
RCL & DfT Solutions	5
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RoodMicrotec	7
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4 Sponsor & Host Information

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Addr: Parkway,

Pen-y-Fan Industrial Estate

Croespenmaen, Crumlin

South Wales, NP11 3XT

United Kingdom



UNISEM Europe services include the following:

- New Package selection review and advice (including SiP and MCM)
- Package design and development for wide variety of package styles
- Failure analysis
- Reliability and qualification testing
- Test development, Test consultancy via partners
- Fast turn prototyping (BGA, QFN)

Benefits include:

- Part of the international Unisem Group
- UK Location
- Communications links
- Flexibility
- Responsiveness
- Time zone
- Range of packaging, test and support services.
- And transfer of mass production to Unisem's low cost Asian plants.

5 Exhibitor Information

Table No. 1 CEMMNT

CEMMNT

Measurement & Characterisation to the Nano Scale

Contact: Paul Newbatt
Email: paul.newbatt@cemmnt.co.uk
Web: www.cemmnt.co.uk
Tel: +44 (0)1509 635277
Address: SEIC Sir Denis Rooke Building,
Holywell Park,
Loughborough University,
Loughborough,
LE11 3TU,
Leicestershire, UK.

CEMMNT provides world-leading measurement, characterisation and analytical services across all industry sectors, enabling companies to innovate in design, optimise product quality and performance, reduce costs and maximise competitive advantage. Through CEMMNT, clients benefit from single-point-access to the widest range of state-of-the-art metrology techniques in the UK, ensuring the highest level of accuracy and performance is achieved. This unique range is complemented by open access to the knowledge and experience of over 250 multi-disciplinary experts, each committed to providing you with the highest quality in measurement and characterisation technologies specific to your industry. However large or small the challenge may be, CEMMNT offers a unique correlation of multiple techniques and industry-leading expertise to provide businesses with customer focussed solutions from design concept through to manufacture.

www.cemmnt.co.uk

Table No. 2 INSIDIX

Contact: Michael Hertl
Email: michael.hertl@insidix.com
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France



Insidix is specialized in high resolution, non destructive analysis for the electronics industry. We offer a global test approach, combining technologies like

- Scanning acoustic microscopy (SAM) – SONIX equipment,
- 2D and 3D X-ray imaging (XCT) – FEINFOCUS/COMET equipment,
- Topography and Deformation Measurement (TDM) under thermal stress conditions – INSIDIX equipment,
- X-ray μ -fluorescence (μ -XRF) – RÖNTGENANALYTIK equipment,

for addressing all test and measurement issues related to

- Process development,
- Periodic production control,
- Quality control,
- Failure analysis.

INSIDIX offers service measurements and system sales.

Table No. 3 Maser Engineering

Contact: John Watkins
Email: jwatred@aol.com
Web: <http://www.maser.nl>
Tel: +44 (01367) 252-265
Addr: UK Branch Office
Redcroft Associates
Hambridge Lane
Lechlade
GLOS
GL7 3ED



MASER Engineering services include:

Reliability Test

- Qualification tests
- ESD / LatchUp
- HALT / HASS
- Drop / Shock / Vibration

Physical Analysis

- Failure Analysis
- Construction Analysis
- Non Destructive Analysis → XRAY(2D&3D) / C-SAM
- Fault localisation → EMMI / OBIRCH / Structural E-Test
- Microscopy → Optical / SEM/EDX / (S)TEM/EDX / Dual-Beam FEGSEM+FIB
- Front & Back side Integrated Circuit Edit including copper metal edit

Table No. 4 Optocap Ltd

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Addr: Optocap Ltd
5 Bain Square
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Livingston
EH54 7DQ



“Optocap Ltd is an Assembly and Packaging Subcontractor for packaging and assembly in the Microelectronics and Optoelectronics industry. Optocap provides advanced packaging solutions to a world-wide client base of blue chip multinationals and leading edge start-ups.

Optocap's services include:

- Package design, modeling and verification
- Prototype and Pilot assembly
- New Product Introduction
- Automated volume manufacturing process development
- Process transfer
- Volume sub-contract manufacturing
- Supply chain management
- Environmental testing to Telcordia, JEDEC, IPC standards
- Device testing and characterisation
- Failure Analysis and Corrective action support

Optocap utilise's itself capabilities and know-how in a wide variety of microelectronic technology platforms including;

- Fast-Turn IC assembly
- Flip chip assembly
- SiP assembly
- CMOS sensor assembly
- RF/MMIC module assembly”

Table No. 5 RCL & DfT Solutions

DfT Solutions Limited

Contact: Eric Cormack
Email: eric.cormack@gmail.com
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United Kingdom
PO15 6BW



DfT Solutions Limited provides Design-for-Test(DfT) Training and Consultancy across IC, Board and System test to the Electronics Design communities worldwide.

Training: DfT Solutions Limited can offer standard DfT training courses ranging from ½ to 3 days in duration for both chip and board design. For those who wish specific issues to be covered a customised DfT training course is also offered.

Consultancy: DfT Solutions Limited can offer a range of test technology and test strategy development consultancy services tailored to solve your Design-For-Test (DfT) and production test challenges. Contact our experts for an evaluation of your needs and honest view of how DfT Solutions Limited can assist.

RCL (Reliability Consultancy Limited)

Contact: Stephen Meats
Email: s.meats@rcl-reliability.com
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Addr: Reliability Consultancy Limited
9 Alder Close
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United Kingdom
SO51 5SJ



RCL offers a unique Reliability Training and Consultancy service for the Electronics Industry.

Training: RCL provides training covering topics such as Reliability Qualifications and DfR issues such as ESD protection. Courses range from a ½ day introductory course through to 3 or 4 day in depth programmes tailored to the client's need.

Consultancy: A consultancy service is offered on aspects of Reliability Engineering throughout the entire product development cycle from the design issues through to customer issues with the end product.

Technical Auditing: Technical Auditing of Reliability Operations is available as a service for clients using third party services for Reliability Qualifications. Support is offered for Commercial, Automotive and Military / Space markets.

Table No. 6 Reltech

Contact: Mark Ashley
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Gloucestershire GL11 5PW



Reltech provides Start up and Established Fabless Semiconductor companies with full Turn-Key solutions to Biased Life Test Qualification Testing of new devices prior to volume manufacture

Qual Planning and Biased Test Strategy Development,
Test Hardware, Software - design and manufacture,
Performing Biased Life Testing – High Temperature Operating Life
(HTOL), Temperature Humidity Bias (THB), HAST & Power/Temperature Cycling.

Technologies Served

Highly Integrated Single Chip solutions

CMOS VLSI 180nm - 65nm Semiconductor devices

RF, Digital,

Table No. 7 RoodMicrotec

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86720 Nördlingen
Germany



With almost forty years of experience as a value-added service provider, RoodMicrotec has established a very strong position in the microelectronics and optoelectronics industries in Europe. RoodMicrotec's one-stop services include failure & technology analysis, qualification and burn-in, test- & product engineering, production test – device programming – end-of-line service, reliability engineering – ESD/ESDFOS evaluation & training as well supply chain management. The services fulfil the quality requirements of the automotive, aerospace, telecommunication, medical, automation and industrial electronics industries.

RoodMicrotec has branches in Germany (Dresden, Nördlingen, Stuttgart) and in the Netherlands (Zwolle).

RoodMicrotec services:

- Test / Product Engineering
- Production test, Programming, End-of-Line Service
- Supply Chain Management
- Qualification and Burn-In
- Failure & Technology Analysis
- FIB services
- Reliability Engineering
- ESD/ESDFOS Evaluation & Training

for active, passive and optoelectronic devices, printed circuit boards (PCBs) and printed board assemblies (PBAs).

All our products and services underlie the highest quality and environmental standards

- * ISO/TS16949
- * ISO9001
- * ISO/IEC17025
- * ISO 14001



Picture: Wafer test in the cleanroom

Table No. 8 SERMA Technologies

Contact: Nick Renaud-Bezot
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c/o [John P. Kummer Ltd.](#)
121 High Street
Marlborough SN8 1LZ
United Kingdom



SERMA offers the following services :

- Consulting and analysis from before the die to the whole system
- Product Testing
- Failure Analysis
- Circuit Modification
- Construction Analysis
- Sensibility to Electrical Effects
- Qualification
- Training

Business:

- ISO 9001:2000 certified
- NDA signed with every customer

Table No. 9 Smartest

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Alte Landstr. 25
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Fast and cost-effective development of IC test solutions

- faster turn around times in product development
- cost-effective manufacturing
- flexible and efficient way
- minimising the involvement of the customer's resources

Complete package of services for IC test industrialisation

- design and manufacturing of interface boards
- test program generation and debug
- production integration
- product analysis
- documentation and training
- monitoring by computerized project planning and review tools
- ISO 9001/14001 Certified

General Enquires:

For general enquires about NMI, please check our web site or contact NMI directly.....

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