

# IMAPS Nordic 2008 Programme rev.4

Hotel Marienlyst  
Helsingør - September 14 – 16



## Sunday 14 September

	Tutorial 1	
14:00 – 18:00	<b>LTCC for Micro- and Millimetre-Wave Applications</b> Peter Uhlig, IMST, Germany	

16:00 – 19:00	<b>REGISTRATION</b>
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<b>19:30 – 21:30</b>	<b>Cocktail Party for all</b>
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## Monday 15 September

<b>08:00 – 18:30</b>	<b>REGISTRATION</b>	
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<b>09:00 – 09:45</b>	<b>COFFEE</b>	
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<b>09:45 – 12:00</b>	<b>Opening Session MA-1</b>	Søren Nørlyng
10:00 - 10:30	<b>Keynote1: Erik V. Thomsen, MIC – Department of Micro and Nanotechnology, DTU, Denmark</b> Micro and nano engineering activities in Denmark	
10:30 - 11:00	<b>Keynote2: Andy Longford, PandA Europe, UK</b> Micro-Nano Systems: Future R&D and new challenges for Europe	
11:00 - 11:30	Exhibitors' Presentations, one single minute each	

<b>11:30 – 12:15</b>	<b>IMAPS-NORDIC ANNUAL MEETING</b>	
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<b>12:15 – 13:30</b>	<b>LUNCH</b>	
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<b>MP-A1: 3D, SIP, TSV</b>		<b>MP-B1: Reliability</b>	
TIME	CHAIR	TIME	CHAIR
13:30 – 13:55	<b>3D package technology integration</b> KC Yee, ASE, Taiwan. (Invited speech)	13:30 – 13:55	<b>Electronics in high pressure application. A reliability study</b> Rolf Johannessen, SINTEF, Norway
13:55 – 14:20	<b>Market and technology trends for 3D ICs</b> JC Eloy, Yole Développement, France	13:55 – 14:20	<b>A novel test method to evaluate mechanical shock reliability</b> Jussi Hokka, Helsinki University of Technology, Finland
14:20 – 14:45	<b>TSV – a key technology for 3D system integration</b> Jürgen Wolf, FhG-IZM, Germany	14:20 – 14:45	<b>The reliability of solder interconnections under cyclic thermal and mechanical shock loading</b> Toni Mattila, Helsinki University of Technology
14:45 – 15:10	<b>Options for low cost through-silicon interconnect</b> Fred Roozeboom <sup>1</sup> , Eric van Grunsven <sup>2</sup> , <sup>1</sup> NXP, <sup>2</sup> Philips, The Netherlands	14:45 – 15:10	<b>Acceleration Factors for Lead Free Solder Materials</b> Olli Salmela, Nokia Siemens Networks, Finland

<b>15:10 – 16:10</b>	<b>COFFEE &amp; TIME FOR EXHIBITION</b>	
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<b>MP-A2: Flip chip &amp; Bumping</b>		<b>MP-B2: MEMS, sensors &amp; sensor packaging</b>	
TIME	CHAIR	TIME	CHAIR
16:10 – 16:35	<b>An overview of flip chip joining technologies and related materials</b> Søren Nørlyng, MICRONSULT, Denmark	16:10 – 16:35	<b>Packaged multi sensor system for fisheries research: new test methods of package</b> Karen Birkelund, DTU Nanotech, Denmark
16:35 – 17:00	<b>Low temperature Au-Au flip chip interconnections</b> Barbara Pahl, FhG-IZM, Germany	16:35 – 17:00	<b>The theory of a thin electret (MEMS) speaker</b> Eino Jakku, Perlos, Finland
17:00 – 17:25	<b>New flip chip technology</b> Reinhard Windemuth, Panasonic, Germany	17:00 – 17:25	<b>Water penetration study for a wireless 3D electronic patch</b> Jakob Janting, DELTA Danish Electronics, Light & Acoustics, Denmark
17:25 – 17:50	<b>Lead-free WLCSP solder bumps on ENIG &amp; ENEP(G) UBM – a comparison of intermetallic properties using high speed pull test</b> Thomas Oppert, Pac Tech, Germany	17:25 – 17:50	<b>MEMS sensor packaging</b> Per-Erik Fägerman, Mandalon, Sweden
19:30 –	<b>BANQUET DINNER</b>		

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## Tuesday 16 September

<b>TA-A1: Ceramics technologies</b>		<b>TA-B1: Design &amp; Simulation</b>	
TIME	CHAIR	TIME	CHAIR
08:30 – 08:55	<b>PZT thick film for integrated and miniaturised devices on silicon, LTCC and other substrates</b> Rasmus Lou-Møller, InSensor, Denmark	08:30 – 08:55	<b>An experimental investigation of diffusion within electroplated lead-free solder alloy stacks combining elements such as Sn, Cu, Au and/or Zn onto a Ni UBM</b> René Bergmann, DTU Mechanical Engineering – Micro/Nano and Precision Manufacturing, Denmark
08:55 – 09:20	<b>Integration technologies for sensors using LTCC</b> Franz Bechtold, Via electronic, Germany	08:55 – 09:20	<b>Feasibility study of SLID interconnects for RF applications</b> Deokki Min, Vestfold University College, Norway
09:20 – 09:45	<b>Thick film pastes for the manufacture of low cost, insulated aluminium substrates suitable for use as heat sinks for high power LED applications</b> Michel Bilinski, ESL, UK	09:20 – 09:45	<b>Reliability evaluation for solder joints in embedded package considering the effect of adhesive condition of the surface</b> Hiroki Miyaushi, Yokohama National University, Japan
09:45 – 10:45	<b>COFFEE &amp; TIME FOR EXHIBITION</b>		
<b>TA-A2: Ceramics technologies &amp; HB LED</b>		<b>TA-B2: Materials</b>	
TIME	CHAIR	TIME	CHAIR
10:45 – 11:10	<b>Technology and design of precise embedded capacitors in LTCC</b> Jens Müller, TU Ilmenau, Germany	10:45 – 11:10	<b>A novel curative designed for wafer applied coatings</b> Paul Hough, Lord Corporation, Germany
11:10 – 11:35	<b>A 20 GHz Fractional-N Synthesizer Module for Satellite Operation</b> Peter Uhlig, IMST, Germany	11:10 – 11:35	<b>Development of metal coated polymer particles with extremely narrow size distribution</b> Helge Kristiansen, Conpart, Norway
11:35 – 12:00	<b>Novel HB-LED Silicone-Phosphors Dispensing for Small Packaging Geometries</b> Horatio Quinones, Asymtek, USA	11:35 – 12:00	<b>Uniformity of electroplated interconnects for 3D MEMS/ASIC stacking</b> He Liu, Vestfold University College, Norway
12:00 – 13:00	<b>LUNCH</b>		

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<b>TP-A1: Packaging &amp; Interconnection technologies</b>		<b>TP-B1: Applications &amp; Manufacturing</b>	
TIME	CHAIR	TIME	CHAIR
13:00 – 13:25	<b>Methods for assembly of standard electronic components without solder</b> Joseph Fjelstad, Verdant Electronics, USA	13:00 – 13:25	<b>Thick film modules mounted on flexible printed circuits</b> Markus Detert, Dresden University of Technology, Germany
13:25 – 13:50	<b>Development of a novel solder interconnection technique by using self assembly phenomena of solder particles accelerated by micro bubbles</b> Takashi Kitae, Matsushita Electric Industrial Co., Ltd., Japan	13:25 – 13:50	<b>Adhesion of flexible printed circuit substrate to overmoulded polymer and characterization of overmolded electronic components</b> Matti Koponen, VTT, Finland
13:50 – 14:15	<b>Advanced packaging requirements</b> Voya Markovich, Endicott Interconnect Technologies, USA	13:50 – 14:15	<b>Latest plasma cleaning technology</b> Reinhard Windemuth, Panasonic, Germany
14:15 – 14:40	<b>Chip/Antenna interconnections for contact-less smart card applications</b> Markku Lahti, VTT, Finland	14:15 – 14:40	<b>X-ray nanoCT: Visualisation of internal 3D structures with submicrometer resolution</b> André Egbert, Phoenix x-ray Systems Services, Germany
14:15 – 15:15	<b>COFFEE &amp; TIME FOR EXHIBITION</b>		
<b>TP-A2: Packaging &amp; Interconnection technologies</b>		<b>TP-B2: Thermal management</b>	
TIME	CHAIR	TIME	CHAIR
15:15 – 15:40	<b>Hearing aid demonstrators based on cavity PCB and folded flex</b> Anders E. Petersen, Oticon, Denmark	15:15 – 15:40	<b>Novel filler packing for improved thermal interface materials</b> Paul Hough, Lord Corporation, Germany
15:40 – 16:05	<b>High reliability gold stud bumping for harsh environments</b> Hoang-Vu Nguyen, Vestfold University College, Norway	15:40 – 16:05	<b>Die crack prevention in discrete devices with dice soldered onto copper leadframe</b> Roelf A J Groenhuis, NXP, The Netherlands
16:05 – 16:10	<b>CLOSING – and seeing you in Tønsberg, Norway, September 13-15, 2009</b>		