

# Nanomed Conference 2005

## Nano Scale Science in Healthcare Applications

### Programme

(Subject to change)

**Wednesday 6<sup>th</sup> July 2005**

Time	Theme & Speaker
09.00 – 09.30	Registration, Coffee and Exhibition
09.30 – 10.45  Chaired by Professor Andrew McCaskie	<b>A. Nanomed - Introduction</b>
	LOCAL EXPERIENCE <i>Prof. Andrew McCaskie, University of Newcastle</i> A EUROPEAN PERSPECTIVE, PARTICULARLY RELATING TO PRECLINICAL AND CLINICAL DEVELOPMENT OF NANOSIZED THERAPEUTICS AND DRUG DELIVERY SYSTEMS. <i>Ruth Duncan, Cardiff University</i> AMERICAN EXPERIENCE <i>Mauro Ferrari, NCI, USA</i>
10.45 – 11.15	Tea & Coffee & Exhibition
11.15 – 12.55  Chaired by Professor Jeremy Lakey	<b>B. Nanomed – Case Studies</b>
	NANOTECHNOLOGY-BASED APPLICATIONS IN THE DEVELOPMENT OF NOVEL DIAGNOSTIC TESTS <i>Bill Cunningham, BIVDA</i> DNA SEQUENCING USING CLUSTERS OF ARRAYED SINGLE MOLECULES <i>Harold Swerdlow, Director of Research, Solexa Ltd</i> MICROFLUIDIC DEVICES AND HEALTHCARE PRODUCT DEVELOPMENT <i>Tim Ryan, Microsystems, Epigem</i> MONITORING AND DIAGNOSTICS IN CRITICAL CARE <i>Gavin Troughton, Sphere Medical</i> FAST TRACK INCORPORATION OF NANOTECH IN MEDICAL PRODUCTS <i>John Malcolm Wilkinson, Managing Director, Technology for Industry LTD</i>
12.55 – 13.55	Buffet Lunch & Exhibition
13.55 – 14.00  Chaired by Ajay Kapoor	<b>C. Nanomed - International Collaboration – British Council</b>
	INTRODUCTION <i>Ajay Kapoor, University of Newcastle upon Tyne</i>
14.00 – 14.20	CORTICAL RECORDING <i>Malcolm Young, Provost SAgE, Newcastle</i>
14.20 – 14.40	CATARACT EYE SURGERY USING PHACO-EMULSIFICATION <i>Mr M Jabir, Ophthalmic Surgeon, Rotherham General Hospital.</i>
14.40 – 15.00	NANO DRUG DEVELOPMENT <i>Dr Ramchand – Director of Research, Kemin Corporation</i>
15.00 – 15.20	TEACHING ISSUES Dr Ashwin Shesia, Cambridge University
15.20 – 15.30	Assembly of workshop discussion groups
15.30 – 15.45	Break
15.45 – 16.45	<b>Workshops</b>
17.20 – 17.45	Workshop findings and panel discussion
19.30 – 23.00	Drinks reception & conference dinner. After dinner speaker Dr Fred Wright

**Thursday 7<sup>th</sup> July 2005**

<p>09.00 – 11.15</p> <p>Chaired by Dr. Mark Birch</p>	<p><b>D. Nanomed – Free Session – Nano scale or small scale technologies for clinical applications</b></p> <ol style="list-style-type: none"> <li>1. ELECTROCHEMICAL MICROARRAYS FOR LABELLING- FREE MULTIPLEXED SEQUENCE IDENTIFICATION <i>Miss Afshan Dean, Technology for Industry LTD.</i></li> <li>2. TOPOGRAPHICALLY MODIFIED CHITOSAN CAN INFLUENCE CELL BEHAVIOUR AND ENHANCE CELL ACTIVITY <i>Andrew Sprowson, University of Newcastle.</i></li> <li>3. DNA HYBRIDISATION DETECTION USING <i>Arun Harish, University of Newcastle.</i></li> <li>4. NANOPOROUS MEMBRANE BIOCHIP DEVICES FOR IMPEDIMETRIC ANALYSIS OF DNA HYBRIDISATION <i>Zulfiqur Ali, University of Teeside</i></li> <li>5. CARBON NANOFIBRE BASED ELECTRODE SYSTEM FOR ELECTROCHEMICAL BIOSENSOR <i>Stela Pruneanu, University of Teeside.</i></li> <li>6. SILICON NANOPARTICLES AS LABELS IN CELL BIOLOGY <i>Ben Horrocks, University of Newcastle.</i></li> <li>7. MECHANICS OF MICRO MEMBRANES WITH APPLICATIONS IN DRUG DELIVERY SYSTEMS <i>R. Pratap, Indian Institute of Science.</i></li> <li>8. OPTICAL FIBRE BASED FORCE SENSORS FOR USE IN ENDOSCOPES <i>M.S. Bobji, Indian Institute of Science.</i></li> </ol>
<p>11.15 – 11.45</p>	<p>Tea &amp; Coffee &amp; Exhibition</p>
<p>11.45 – 12.45</p>	<p><b>Keynote Speaker</b> Introduction by Dave Robbins THE TOXICOLOGY OF INHALED NANOPARTICLES <i>Dr. Vicki Stone, Reader in Toxicology Napier University</i></p>
<p>12.45 – 14.00</p>	<p>Buffet Lunch &amp; Exhibition</p>
<p>14.00 – 15.30</p> <p>Chaired by Jerel Whittingham, CENAMPS</p>	<p><b>E. Nanomed – Commercialisation: Getting the ideas to work</b></p> <p>COMMERCIALISING UNIVERSITY TECHNOLOGY <i>Peter Grant, Sheffield University</i></p> <p>YOUR TECHNOLOGY WORKS? THAT'S JUST THE BEGINNING <i>Bill Mullen, Angle Technologies/Acolyte Biomedica</i></p> <p>SHARING YOUR INTELLECTUAL PROPERTY FOR MUTUAL ADVANTAGE <i>Dr Peter Harrison, Hammonds (IP Co-operatives)</i></p> <p>"WHEN 1+1=3". HOW TO MAKE PRODUCT COLLABORATIONS WORK. <i>Klaus Schnurr, Knowledge Futures</i></p>
<p>15.30 – 15.50</p>	<p>Conference summary</p>
<p>15.50</p>	<p>CONFERENCE CLOSE</p>