

# Metrology for Innovative Nanoparticles

## Innanopart Open Day Program

25<sup>th</sup> April 2018

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<b>8:30 - 9:30</b>	<b>REGISTRATION</b>
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<b>9:30 - 9:45</b>	<b>Alex Shard (NPL, UK):</b> <i>The Innanopart project</i>
<b>9:45 - 10:10</b>	<b>Dorota Bartczak (LGC, UK):</b> <i>Number-based concentration measurements of polydispersed samples with PTA</i>
<b>10:10 - 10:35</b>	<b>Konstantina Vasilatou (METAS, Switzerland):</b> <i>Metrological characterisation of the Electro Spray-Differential Mobility method for the determination of nanoparticle number concentration in colloids</i>
<b>11:35 - 11:00</b>	<b>Caterina Minelli (NPL, UK):</b> <i>Concentration of nanoparticles by UV-Vis spectroscopy and Differential Centrifugal Sedimentation</i>

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<b>11:00 - 11:30</b>	<b>COFFEE BREAK</b>
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<b>11:30 - 11:55</b>	<b>Hugo Kerdoncuff (DFM, Denmark):</b> <i>Applying hollow core photonic crystal fibre for optical characterisation of nanoparticles</i>
<b>11:55 - 12:20</b>	<b>Karen Murphy (NIST, USA):</b> <i>Measuring Nanoparticle Concentration Using Single Particle ICP-MS</i>
<b>12:20 - 12:45</b>	<b>Vasile-Dan Hodoroba (BAM, Germany):</b> <i>Lessons on measurement of nanoparticle size and shape learnt from NanoDefine silica nanoparticles from absorption and turbidity spectra</i>

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<b>12:45 - 14:00</b>	<b>LUNCH AND POSTER SESSION</b>
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<b>14:00 - 14:25</b>	<b>Uwe Schedler (PolyAn, Germany):</b> <i>Surface characterisation of particles for Life Science applications – an industry perspective</i>
<b>14:25 - 14:50</b>	<b>David Cant (NPL, UK):</b> <i>Measuring core-shell particles: ideality compared to reality</i>
<b>14:50 - 15:15</b>	<b>Anja Müller (BAM, Germany):</b> <i>Determining the shell thickness of core-shell nanoparticles using scanning transmission X-ray microscopy (STXM)</i>

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<b>15:15 – 15:45</b>	<b>COFFEE BREAK</b>
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<b>15:45 - 16:10</b>	<b>Wolfgang Werner (Technical University Vienna, Austria):</b> <i>Electron Beam Techniques for Analysis of Nanoparticle Chemistry and Morphology</i>
<b>16:10 - 16:35</b>	<b>Ute Resch-Genger (BAM, Germany):</b> <i>Simple and Versatile Methods for Quantifying Functional Groups, Ligands, and Biomolecules on Nanomaterials</i>

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<b>16.35 - 17.30</b>	<b>DISCUSSION AND CONCLUDING REMARKS</b>
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