

# Metrology for Innovative Nanoparticles

## Innanopart Open Day Program

25<sup>th</sup> April 2018

---

|                    |                     |
|--------------------|---------------------|
| <b>8:30 - 9:30</b> | <b>REGISTRATION</b> |
|--------------------|---------------------|

---

|                      |  |
|----------------------|--|
| <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>   |

---

|                      |                     |
|----------------------|---------------------|
| <b>11:00 - 11:30</b> | <b>COFFEE BREAK</b> |
|----------------------|---------------------|

---

|                      |   |
|----------------------|---|
| <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</i>          |

---

|                      |                                 |
|----------------------|---------------------------------|
| <b>12:45 - 14:00</b> | <b>LUNCH AND POSTER SESSION</b> |
|----------------------|---------------------------------|

---

|                      |   |
|----------------------|---|
| <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> |

---

|                      |                     |
|----------------------|---------------------|
| <b>15:15 – 15:45</b> | <b>COFFEE BREAK</b> |
|----------------------|---------------------|

---

|                      |   |
|----------------------|---|
| <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> |

---

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

---