

Materials for tomorrow, Gothenburgh 2016

Programme

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| | Plenary lecture in Hall RunAn |
| | Session in Hall RunAn |
| | Session in Hall Palmstedtsalen |
| | AkzoNobel Prize winners in Hall RunAn |

Tuesday 8 - Thursday 10 November

"Material i våra liv"

Exhibition in Volvofoajén, lower level

| TUESDAY 8 NOVEMBER | |
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| 11:00-13:15 | Registration |
| 13:15-13:25 | <i>Welcome address</i> Aleksandar Matic , Chalmers University of Technology Hanna Härelind , Division of surface and materials chemistry |
| | Plenary session |
| 13:25-13:55 | <i>Bioprinting living tissues: Promise and challenges</i> Marcy Zenobi Wong , ETH Zürich, Switzerland |
| 14:00-14:30 | <i>Graphene - The magic material and some potential large scale applications</i> Johan Liu , Chalmers University of Technology, Sweden |
| 14:30-15:00 | Coffee break |
| | Session: 3D printing |
| 15:00-15:20 | <i>Additive manufacture metal implants: Preclinical experience and clinical potential</i> Anders Palmquist , University of Gothenburg, Sweden |
| 15:20-15:40 | <i>Design for AM: The key to the adoption of additive manufacturing</i> Olof Diegel , Lund University, Sweden |
| 15:40-16:00 | <i>Additive manufacturing of gamma titanium aluminide turbine blades by Electron Beam Melting (EBM®)</i> Mattias Fager , Arcam, Sweden |
| 16:00-16:20 | <i>Wood biopolymers bringing another dimension to 3D printing: 4D printing of functional materials</i> Paul Gatenholm , Chalmers University of Technology, Sweden |
| 16:20-17:00 | Annual proceedings of the Division of surface chemistry and materials chemistry within the Swedish Chemical Society |
| 16:20-18:30 | Poster session and mingle in Volvofoajén |

| WEDNESDAY 9 NOVEMBER | |
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| Plenary session | |
| 08:45-09:15 | <i>New characterisation approaches applied to batteries and supercapacitors</i> Clare Grey , University of Cambridge, UK |
| 09:20-09:50 | <i>Wood nanotechnology for transparent wood</i> Lars Berglund , KTH Royal Institute for Technology, Sweden |
| 09:55-10:25 | <i>Materials and methods for the conservation of cultural heritage</i> Piero Baglioni , University of Florence, Italy |
| 10:25-10:45 | Coffee break |
| | Session: Cutting edge materials analysis |
| 10:45-11:05 | <i>Title to be announced</i> Mike Gordon , University of California at Santa Barbara, USA |
| 11:05-11:25 | <i>Grazing incidence neutron scattering for interfacial thin films and nanostructures</i> Hanna Wacklin , European Spallation Source ERIC/Lund University, Sweden |
| 11:25-11:45 | <i>Local structure studies of halide perovskites</i> Ram Shesadri , University of California at Santa Barbara, USA |
| 11:45-12:05 | <i>Nanostructure mapping in macroscopic samples using small-angle X-ray scattering tensor tomography</i> Marianne Liebi , Paul Scherrer Institute, Switzerland |
| 12:05-13:15 | Lunch |
| | Session: Materials in art and architecture |
| 13:15-13:35 | <i>The smell of new materials and why it's important</i> Matija Strlic , University College London, UK |
| 13:35-13:55 | <i>Materials in folk art from Hälsingland: A colourful study</i> Inga-Lill Nyström , University of Gothenburg, Sweden |
| 13:55-14:15 | <i>Nanocellulose-based formulations for restoration of canvas paintings</i> Oleksandr Nechyporchuk , Chalmers University of Technology, Sweden |
| 14:15-14:35 | <i>Imagine matter: From an architect's point of view</i> Morten Lund , Chalmers University of Technology, Sweden |
| | Session: Wood nanotechnology |
| | <i>Nanocelluloses</i> Derek Grey , McGill University, Canada |
| | <i>From wood to nano-building blocks: Is there a memory effect?</i> Merima Hasani , Chalmers University of Technology, Sweden |
| | <i>Micro fibrillated cellulose: Production and applications</i> Lars Axrup , Stora Enso, Sweden |
| | <i>Assembly of nanocellulose-based hybrids and foams</i> Lennart Bergström , Stockholm University, Sweden |
| | Session: Wood nanotechnology & Composites |
| | <i>Nanocellulose for high performance biocomposites</i> Gunnar Westman , Chalmers University of Technology, Sweden |
| | <i>Functional membranes from nanocellulose</i> Aji Mathew , Stockholm University, Sweden |
| | <i>Water-based dissolution of wood cellulose and design of novel cellulose-based nanocomposite materials</i> Magnus Norgren , Mid Sweden University, Sweden |
| | <i>Title to be announced</i> Alexander Bismarck , University of Vienna, Austria |

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| 14:35-15:00 | Coffee break |
| | Session: AkzoNobel Prize |
| 15:00-15:20 | AkzoNobel Prize announcement |
| 15:20-15:50 | <i>Pharmaceutical film coatings based on ethyl cellulose-linking structure, properties, processing and performance</i> Mariagrazia Marucci , AstraZeneca/Lund University, Sweden - AkzoNobel Prize winner |
| 15:50-16:20 | <i>Controlling water evaporation through self-assembly</i> Emma Sparr , Lund University, Sweden - AkzoNobel invited speaker |
| 16:20-18:20 | Poster session and mingle in Volvofoajén |
| 18:30- | Conference dinner and entertainment |

| THURSDAY 10 NOVEMBER | |
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| | Session: Rising stars in materials industry |
| 09:00-09:20 | <i>Nanoporous silica particles: serving the pharmaceutical industry</i> Adam Feiler , Nanologica, Sweden |
| 09:20-09:40 | <i>Cellink - the future of medicine</i> Héctor Martínez , Cellink, Sweden |
| 09:40-10:00 | <i>Making implants integrate</i> Per Kjellin , Promimic, Sweden |
| 10:00-10:20 | <i>New wood based materials: From academia to market</i> Åsa Ek , Cellutech, Sweden |
| 10:20-10:45 | Coffee break |
| | Plenary session |
| 10:45-11:15 | <i>Smart textiles: From chemistry to sports technology</i> Nils-Krister Persson , University of Borås, Sweden |
| 11:15-11:45 | <i>Nanoexploring with electron microscopy: Making visible the invisible</i> Sarah Haigh , University of Manchester, UK |
| 11:45-12:00 | Concluding remarks |