



Invitation

Advanced Cellulose to Novel Products

Final seminar

CLIC Innovation research program *Advanced Cellulose to Novel Products (ACel)* invites you to its final open seminar in May 19th, 2017 at Hotel Paasitorni (Paasivuorenkatu 5A) Helsinki, Finland.

The seminar will focus on advances and future view of ACel topics: cellulose reactivity, ionic liquid based textile fibre spinning process development, moldable cellulose materials, and cellulose-based chemicals. Understanding and mastering of cellulose reactivity is highly topical for efficient commercial exploitation of wood cellulose to various products. Spinning of high quality man-made cellulosic fibres with ionic liquids is a promising approach towards sustainable performance materials. Up-scaling the process towards commercialization requires understanding of the recycling processing parameters of ionic liquids. Extending the performance/properties of moldable cellulose-based materials enables their applicability in packaging and composite applications and beyond. New cellulose application opportunities could also be opened through cellulose-based cationic polymers.

We offer an opportunity to hear about both the ACel results and the opportunities and challenges of future cellulose-based advanced products.

On-line registration:

https://www.lyyti.fi/preview/ancel_19052017

Free participation by registration

No show fee: 150 €

For registration and practical information:

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For more information: www.clicinnovation.fi

Registrations before 7.5.2017

WELCOME!

Programme 19.5.2017

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| 8.30 | Registration & coffee |
| 9.00 | Opening & ACel introduction
<i>Anna Suurnäkki</i> |
| 9.15 | ACel highlights I: Reactivity
<i>chair Kari Kovasin, Metsä Fibre</i> <ul style="list-style-type: none">• Reactivity analysis methods
<i>prof. Thad Maloney, Aalto University'</i>• Cellulose fibre structure understanding
<i>prof. Tapani Vuorinen, Aalto University</i> |
| 10.00 | Invited speaker:
Dr Asta Partanen, nova-Institute
Market opportunities and hurdles for cellulose-based biocomposites |
| 10.30 | ACel highlights II: Moldable cellulose materials
<i>chair Jari Räsänen, Stora Enso</i> <ul style="list-style-type: none">• Thermoformable web
<i>Dr Elias Retulainen, VTT</i>• Biopolymer-fibre composites
<i>Lisa Wikström, VTT</i> |
| 11.30 | Lunch & Poster / demo session |
| 13.00 | Invited speaker:
DDr Haio Harms
Man-made cellulosic fibre development – the thin line between failure and success |
| 13.30 | ACel highlights III:
New process for cellulose fibre spinning
<i>chair Minna Kutvonen-Kemell, Marimekko</i> <ul style="list-style-type: none">• Ionic liquids
<i>prof. Ilkka Kilpeläinen, University of Helsinki</i>• Process development
<i>prof. Herbert Sixta & prof. Ville Alopaeus, Aalto University</i> |
| 14.20 | Demonstrator stories & continuation
<i>Christine Hagström-Näsi, CLIC Innovation</i> |
| 14.40 | Panel discussion
Cellulose-based materials: needs and challenges |
| 15.40 | Final words & Posters, Demonstrators & Coffee |