INVITATION

Exhibition on the 16th – 20th of May, at 8 – 16, Aalto ARTS, Hämeentie 135 C, Helsinki
Seminars on the 18th – 19th of May 2016, Sampo hall, Aalto ARTS, Hämeentie 135 C, Helsinki

The Designing Cellulose for the Future II is the second design and materials research oriented seminar exploring the future applications of cellulose – the renewable Finnish natural resource. Come and discover a diverse range of new cellulose-based materials and new technologies. Explore ideas for circular economy business models and novel applications for textiles, building, 3D printing and many more. Network with the exhibitors and speakers: designers, material researchers and businesses involving the current cellulose field.

Organized by DWoC project in collaboration with CLIC Innovation Ltd.

DWoC (Design Driven Value Chains in the World of Cellulose) is a multidisciplinary research collaboration project funded by Tekes (the Finnish Funding Agency for Innovation) focused on finding new and innovative applications for cellulosic materials. The partners in the project are: the Technical Research Centre of Finland VTT, Aalto University, Tampere University of Technology and the University of Vaasa.

CLIC Innovation is an open innovation cluster with the mission of creating breakthrough solutions in bioeconomy, energy and cleantech. CLIC Innovation coordinates R&D&D project portfolios to construct systemic solutions which are beyond the resources of individual operators. The cluster is a cross-organizational fast-moving network. The shareholders of the nonprofit CLIC Innovation Ltd include 30 companies and 17 universities and research institutions.

SEMINARS
Wednesday 18th of May at 12:00 – 17:00, Future World of Cellulose: Design Meets Science and Business
Thursday 19th of May at 9:00 – 16:30, Cellulose-based Textiles, Composites and Packaging: Current Research in Finland (Scientific)

More information and registration latest by 6.5.2016: http://events.vtt.fi/designing-cellulose
Welcome!
MON 16. – FRI 20.5.2016 EXHIBITION PROGRAMME

Exhibition is open every day at 8:00 – 16:00, free entry
Location: Lume Gallery, Aalto ARTS, Hämeentie 135 C, Helsinki, Finland

An amazing and vast range of different kind of cellulose-based materials, forms and applications have been developed – many presented now for the first time to the public. See the color possibilities, feel the surfaces and experience the structures!

Exhibitors include, among others, Design Driven Value Chains in the World of Cellulose (DWoC), CHEMARTS, Hiilinielu Design Studio, NoMa (Novel Structural Materials with Multi-scale Fibre Components), PACK-AGE, Paptic, Sellusta, Trash-2-Cash and Uusipuu.

New website coming up: www.cellulosefromfinland.fi
WED 18.5.2016, 12:00 – 17:00 SEMINAR PROGRAMME
Location: Sampo Hall, Aalto ARTS, Hämeentie 135 C, Helsinki, Finland

THEME: FUTURE WORLD OF CELLULOSE: DESIGN MEETS SCIENCE AND BUSINESS

12:00 Exhibition Open, Seminar Registration

13:00 – 14.30 Designing Cellulose / Moderator: Pirjo Kääriäinen, Aalto University
13:00 Highlights of DWoC, Design Driven Value Chains in the World of Cellulose
   Project leader Anna Suurnäkki, VTT Technical Research Centre of Finland
13.25 Recycling Cellulose for the Circular Economy
   Research professor Ali Harlin, VTT Technical Research Centre of Finland
13.30 Collaboration between Designers and Scientists in the Context of Scientific Research
   Postdoctoral researcher Carlos Peralta, Aalto University
14:00 NoMa, Novel Structural Materials with Multi-scale Fibre Components
   Project manager Katariina Torvinen, VTT Technical Research Centre of Finland
14.10 Hiilinielu Design Studio / Carbon Sink Design Studio
   Project manager Ulla Häggblom, TAMK
14.20 Inspired by Cellulose
   CHEMARTS students from Aalto University

14:30 Break, 15 min

14.45 – 15.45 Creating Cellulose Community / Moderator: Greg O'Shea, Aalto University
14.45 Evolution Creates, Entrepreneurs Discover
   Professor Roger Koppl, Whitman School of Management, Syracuse University, NY
15.15 Bioeconomy is Already Here
   Project manager Eveliina Pokela, Uusipuu
15.25 CelluloseFromFinland.fi
   Research assistant Liisa Tervinen, Aalto University
15.30 New Cellulose Platform
   Senior advisor Christine Hagström-Näsi, Clic Innovation Ltd

15:45 Refreshments and exhibition

New website coming up: www.cellulosefromfinland.fi
THU 19.5.2016, 9:00 – 16:30 SEMINAR PROGRAMME
Location: Sampo Hall, Aalto ARTS, Hämeentie 135 C, Helsinki, Finland

THEME: CELLULOSE-BASED TEXTILES, COMPOSITES AND PACKAGING: CURRENT RESEARCH IN FINLAND (SCIENTIFIC)

9.00 Opening

9.10 – 9.50 Session 1: Cellulose Reactivity Towards Applications
Differences of Pulps Versus Applications
Professor Tapani Vuorinen, Aalto
Assessment of Surface Accessibility of Nanocellulosic Structures Using Surface Sensitive Methods, Principal Scientist Tekla Tammelin, VTT

9.50 – 11.10 Session 2: Textiles

NEW FIBRE AND FILAMENT SPINNING PROCESSES
Recent Developments of the Ioncell Process for the Production of Man-made Cellulose Fibers, Professor Herbert Sixta, Aalto University
Cellulosic Filaments with Native Cellulose I Structure: Manufacturing Technologies and Filament Properties, Senior Scientist Hannes Orelma, VTT

FROM FIBRES TO TEXTILES
Production Machine Design for New Cellulose-based Products, M.Sc (Tech) Ville Klar, Aalto University
Foam Forming of Different Fibres to Nonwovens, Principal Scientist Jukka Ketoja, VTT

11.10 - 11.40 Poster Pitching 1

11.40 - 13.00 Lunch & Poster Session I

13.00 – 13.40 Session 3: Composites
Cellulose Nanocomposites Processing: Challenges and Possibilities, Professor Kristiina Oksman, University of Oulu
Light-weight Biocomposites by New Fibre Modifications and Polymer Foaming, Research Team Leader Antti Ojala, VTT

13.40 – 14.20 Session 4: Packaging
Keynote: LUT Packaging research Environment for Moldable Fibre-based Webs, Professor Kaj Backfolk, LUT
Paradigm Change – Polymer-like Characteristics with Cellulose Fibre-based Materials, Principal Scientist Mika Vähä-Nissi, VTT

14.20 - 15:00 Poster Pitching 2
15.00 – 16.30 Poster Session II with Refreshments