

RAIZ



Forest and Paper Research Institute

TECHNOLOGICAL
SCOUTING NEWSLETTER

September 2019

Highlights

- Several biorefinery initiatives involving biocomposite caps and cellulosic ethanol.
- New packaging solutions by Metsä and Klabin.

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Services Provided by RAIZ Technological Scouting:

Technological Scouting Newsletter (monthly)

Technological Scouting On Demand (specific technological issues, upon request)

Industrial Property (IP) Survey (quarterly)

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photo: UPM Forest Life

UPM launches Forest Life

UPM's new Forest Life site offers users a unique way of getting to know forestry practices and the species inhabiting Finnish forests. The website takes its user on a tour in the forest and explains the ins and outs of sustainable forestry and forest management. Additionally, forest professionals can there discuss the role of forests to climate change mitigation and the different stages of forest management from planting to harvesting. UPM Forest Life will open in English for users at upmforestlife.com.

Read more > [UPM](#)

● Forest

BIOREFINERY



photo: Stora Enso

Stora Enso: caps made of DuraSense biocomposite

German packaging manufacturer Rebhan is looking for new, sustainable material options made of renewable raw materials which prompted a cooperation with Stora Enso. The first results from this collaboration are already out, with Rebhan now introducing Stora Enso's DuraSense biocomposite caps as part of its GeenLine range for the cosmetics industry.

Read more > [Stora Enso](#)

● Product Development

BIOREFINERY



ORLEN Południe and Clariant: new cellulosic ethanol plant in Poland

The Swiss speciality chemicals company Clariant is providing a license deal for its Sunliquid® cellulosic ethanol production technology to ORLEN Południe, member of ORLEN Group which is the largest player in the fuels and energy markets in Central and Eastern Europe.

ORLEN Południe intends to build a full-scale commercial plant for the production of cellulosic ethanol in southeastern Poland from agricultural residues. The license agreement enables it to use Sunliquid technology for the project development and plant operation.

Read more > [Clariant | Sunliquid®](#)

● Technological
● Product Development



photo: Ahlstrom-Munksjö

Ahlstrom-Munksjö and Seoil: new U-shaped paper straws

Ahlstrom-Munksjö has previously presented CelluStraw™, a specialty paper grade solution for drinking paper straws, meeting the food industry's emerging initiatives to phase out single-use plastic straws.

The developed paper grade has now shown to be appropriate for U-shaped paper straws enabling Ahlstrom-Munksjö to provide this innovative solution to Seoil, a global leader of drinking straw manufacturing. Seoil has already launched the new U-shaped paper straws in selected geographies and will roll it out globally in the coming months.

Read more > [Ahlstrom-Munksjö](#)

● Technological
● Product Development

PACKAGING



photo: Metsä

Metsä Board: new plastic-free eco-barrier paperboard for food

Having in mind sustainable alternatives to plastic packaging and easy recycling, Metsä Board is introducing a new plastic-free eco-barrier paperboard that can be recycled in paper or paperboard waste streams according to local recycling programs.

The New MetsäBoard Prime FBB EB has a medium barrier against moisture and grease, making it suitable for food and food service packaging. As the developed paperboard is plastic-free it does not require a plastic separation process making it easy and cost-efficient to recycle. Additionally, it is safe for direct food contact being free from optical brighteners (OBA free) and fluorochemicals.

Read more > [Metsä](#)

● Product Development



Klabin: fully biodegradable fruit and vegetable tray

Klabin has launched a fully biodegradable tray for transporting, storing and showcasing fruits and vegetables at store shelves. The tray is constituted by corrugated board made from clean fibers, i.e. those used for the first time and free of any contamination. The tray has holes that provide optimum ventilation for conserving the product and preserving its integrity. It is also fully recyclable after use.

Read more > [Klabin](#)

● Product Development

START-UPS NEWS



photo: Woodly

Wipak and Woodly: Transparent, wood-based plastic is closer to production

Woodly is a Finish start-up which has developed an alternative and wood-based plastic film that can be used to replace traditional fossil-based plastics. Wipak is a global supplier of packaging solutions for food products and for medical devices and pharmaceutical products. The two companies have started a collaboration aiming the development of a portfolio of carbon-neutral plastic film packaging to be available on the market before the end of year. The film developed by Woodly has a 40 to 60 % of renewable raw materials and the rest is natural, non-toxic and edible material.

Woodly's products can replace conventional fossil-based plastics in various packaging for consumer products in daily use, such as polyethylene, polypropylene and PET. More details on the Woodly film can be found in the International application WO2018228744A1.

Read more > [Woodly | WO2018228744A1](#)

● Technological
● Product Development

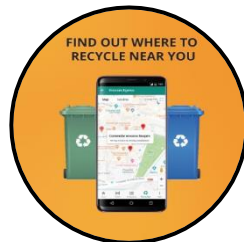


photo: Recycl3R

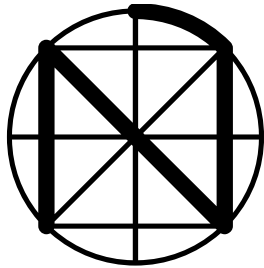
BillerudKorsnäs Venture AB: acquisition of Recycl3R

BillerudKorsnäs has acquired a minority holding in Recycl3R, a company that has developed a global, digital solution to increase recycling rates of single-use packaging. Recycl3R provides a database with information about packaging material for different consumer products. Different recycling regulations and requirements around the world are also taken into account. Consumers are guided to the nearest recycling station and instructed how to correctly recycle. The solution also makes it possible for producers and distributors to give consumers incentive to recycle more with gamification and by connecting value such as deposits or loyalty points to the different packaging materials.

Sustainability and digitalization connected to packaging are strategic focus areas for BillerudKorsnäs Venture AB.

Read more > [BillerudKorsnäs | Recycl3R](#)

● Technological



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