



EPNOE Newsletter - July 2023

Connecting the international polysaccharides community



Editorial

Dear Readers,

EPNOE is booming with exciting activities in the second semester!

On July 5th we organised a roundtable discussion at **ISEKI-Food Conference in Paris** titled “*Modern Analytics of Polysaccharides in Food: Challenges, Limitations and Labelling.*” It has been organised by our **VP Laura Nystrom** in collaboration with **ISEKI-Food President Margarida Vieira**, and with the participation of **Dr. Marta Baffigo** from our industry member Cargill.

Our VP Carmen Freire is actively building collaboration with other societies. On July 3rd-6th, we have organised a session at the **National Congress of Biomaterials of Italian Society** and **Pietro Matricardi** represented EPNOE there.

Polysaccharide analytics is a burgeoning topic, and we have recently launched a new **EPNOE Working Group (WG)** dedicated to this area, welcoming the participation of **scientists, engineers, and industrial researchers**. The objective of this WG is to establish a series of activities and workshops aimed at **fostering a deeper understanding** and **providing comprehensive support to EPNOE members** in relation to analytical methods. **Daniel Wefers** (Germany) has been appointed Chair of the WG.

In early September, we have scheduled a roundtable discussion titled “*Polysaccharide analytics: Challenges, opportunities and future perspectives for research and industry*” which will be hosted during the **European 14th International Conference of the European Chitin Society (EUCHIS 2023)**, in Iceland.

The **programme** of our **EPNOE2023** taking place on **17-22 September in Graz (Austria)** organised by our **VP Karin Stana-Kleinschek** is ready and available online [here](#). In addition to the excellent scientific talks, this edition will offer some thought-provoking **roundtable discussions around the topic of circular bioeconomy**, organised in collaboration with partner associations. During the EPNOE2023 in Graz, we will also launch our **EPNOE Skills Roadmap** led by our **VP Tiina Nypelo**.

Our Brazilian Ambassador, **Elisabete Frollini**, is leading the organisation of our Symposium at the **Brazilian Materials Research Society** taking place in October in Maceio (Brazil), where we expect about 90 scientific contributions.

In November, our **VP Katariina Torvinen** is organising a **Bioeconomy Innovation Day** in Brussels in collaboration with different clusters and with the participation of policy-makers and innovators.

Under the coordination of our **VP Nicolas Le Moigne**, we are donating books to developing countries and working on an excellent book series about **Biobased Polymers**.

EPNOE is successful because of the commitment and contribution of an **outstanding team of talented collaborators**. I feel very lucky to have such wonderful people as part of our team!

We cordially invite you to **join us** and experience the EPNOE atmosphere in Iceland, Austria, Brazil, Belgium, and to **follow us on social media**.

Let's stay connected!

Pedro Fardim
President of EPNOE us on

Follow us:



News & Announcements

Springerbriefs & EPNOE Book Series - Become an Author!



The "*Biobased Polymers*" book series is a **collaborative project** between EPNOE and the esteemed **Springer**. It covers all aspects of **polysaccharide sciences**, as well as their numerous **applications** in various fields.

We invite advanced undergraduates, academic and industrial researchers, as well as professionals studying or utilizing bio-based polymers to **contribute as authors** for the next book. **Your valuable insights and expertise can shape the future of this exciting series!**

For more information and to submit your proposal, please read [here](#).

Henry Lindemann defended his PhD thesis

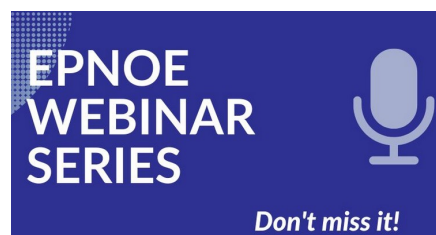




Henry Lindemann defended his PhD thesis titled "*Polysaccharide-based nanoparticles for inhibition of histone deacetylases.*"

Events

SAVE THE DATE of the Next EPNOE Webinar: 5 October 2023!



The EPNOE Webinar Series Returns After Summer Break!

Mark your calendar for **5 October, 13:00 to 14:30 (CEST)**, as we have a special treat for all our attendees!

Isabelle Capron from INRAE, Biopolymers, Interaction and Assembly research unit (BIA) will be presenting a captivating **Plenary Lecture** titled "*Nanocelluloses at the oil-water interface.*"

Keep an eye on **EPNOE Website** and social media channels to find out about the **Research Lecture**.

Let's come together and continue our **pursuit of knowledge** with the EPNOE Webinar Series!

Register now!

Projects

New Projects at "Łukasiewicz Research Network- Lodz Institute of Technology (Łukasiewicz-LIT)" Lodz (Poland)

"An ecological preparation based on natural polymers with a repellent effect on ticks."

Funding Agency: Project co-financed from the state budget

Grant Number: NdS/546389/2022/2022

Start Date: 01/09/2022

End Date: 31/08/2024

The main goal of the project is to develop an environmentally friendly tick-repellent preparation based on properly selected natural polymers with the addition of essential oils, used in the form of spraying on green areas and to evaluate its mechanical, physico-chemical and rheological parameters as well as centrifugal and thermal

stability.

Conducting biological and behavioral tests of the developed preparations on ticks in a research and development unit and tightening cooperation between this unit and entities operating in the socio-economic sphere interested in development and protection of the natural environment.

The implementation of this objective will contribute to the socio-economic development of Poland by improving the conditions conducive to the process of development and diffusion of innovative projects aimed at ensuring safety against tick-borne diseases.

"Support and Development Program for Polish Beekeeping - Smart Apiaries"

Funding Agency: Project co-financed from the state budget

Grant Number: NdS/547977/2022/2022

Start Date: 01/08/2022

End Date: 31/07/2024

The aim of the project is to support the development of Polish beekeeping by tightening cooperation between the scientific and research unit Łukasiewicz - LIT and an entity operating in the socio-economic sphere - Intelligent Hives Sp. z o.o. in the field of improving the living comfort of bees in the autumn-winter-spring period.

Implementation of this goal includes issues such as:

- Improving the living conditions of bees by introducing an ecological thermal insulation composite based on waste animal biomass into the hives, which is closely related to the management of waste raw material
- Creating a system for monitoring (ICT module) the living conditions of bees inside the hive including: temperature, humidity, sound frequency, weight, image and location of the hive with wireless data transfer which will allow detecting anomalies in hives, i.e. swarming conditions, bee diseases or the absence of a queen in the hive, and preventing them in the future.

It is planned to create 30 "smart hives". Demonstration apiaries will allow for the promotion of knowledge in the field of honeycomb formation, the life of bees through a publicly available application visualizing the current parameters in the hive, as well as describing the current state and stage of development of the bee colony. Smart apiaries will also be at the disposal of beekeepers who will run community projects, including introductory courses in beekeeping and sustainable agriculture.

"Let's stop allergies - an innovative solution to improve the quality of life"

Funding Agency: Project co-financed from the state budget

Grant Number: NdS/546213/2022/2022

Start Date: 01/09/2022

End Date: 31/08/2024

The aim of the project is to develop innovative anti-allergic covers and their commercialization. The newly developed anti-allergic covers will be made of a multifunctional textile material characterized by high barrier efficiency in relation to house dust mite allergens, hygiene, comfort and durability of use. Duvets, pillows and mattresses are the main habitat of house dust mites, hence the use of a barrier in the form of anti-allergic covers is a basic element of allergy prevention.

The scope of work includes verification and functionalization of the designed prototype barrier fabric, development of the construction of covers for individual types of bed linen and comprehensive testing of the manufactured solution. Work will be carried out to obtain ECARF and STANDARD 100 by OEKO-TEX certificates.

The final result of the project will therefore be commercialized, innovative anti-allergic covers made available to the general public, with certificates confirming qualified barrier properties and human ecology, and thus the effectiveness of protection against household dust allergens.

"Oh my, what about these wounds, i.e. what dressing to choose and how they differ?"

Funding Agency: Project co-financed from the state budget

Grant Number: NdS/547745/2022/2022

Start Date: 01/09/2022

End Date: 31/08/2024

Choosing the right dressing material for both specialists and patients is a very big challenge. There are currently about 6,000 different types of wound dressing materials on the market. The multitude of products with very different properties, obtained by various technologies, causes difficulties in distinguishing between individual products, finding differences and finally in making the right choice.

Meanwhile, wound dressings play a key role in the wound healing process. The work will analyze dressings from all key groups and types of dressing materials. Characterization of the key parameters of the dressings will be made, which will allow the collection of numerical data of individual parameters.

In this way, it will be useful for both professionals and as well as a legible and clear guide for patients, which will introduce the highly developed and complicated market of dressing materials. Such a study will allow the patient and the professional to make an informed choice.

Open Positions

PhD: «Treatment with cold-PIASma of fibErs from bio-ressouRces: Towards a complete chain of bio-composite eco-design and use for Industry 4.0»

MINES Paris PSL – PERSEE and CEMEF (Sophia Antipolis, FRANCE)

Your profile:

Collaborative works between PERSEE and CEMEF CNRS 7635:

- Engineer/ Masters 2 / Advanced Masters;
- Materials Science, Mechanical Engineering, Chemistry-Physics;
- Motivations in experimental and numerical works.

Start date: Fall 2023

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For more information, please read [here](#).

Recent Scientific Publications of EPNOE Members

Check out the recent **publications of our members!**

[View List of Publications](#)

Forward to a
colleague



For more information, please contact us at contact@epnoe.eu

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