

Reinventing bio-packaging

A BioMarine/ IDE Trois-Rivières event dedicated to bio-packaging and bio-materials.

17-18 Nov. 2021



Welcome

Back in 2007, biotechnology was green, white and red. Anything related to the oceans was considered uninteresting. Against these odds, BioMarine strove to build an international community and demonstrate how our blue vision was a disruptive trans-sector innovation that could reinvigorate traditional industry segments. 12 years after our launch, we can see that the world has become more blue.

After a few years, developing projects related to packaging and sustainable bio polymers, BioMarine has decided to refocus the attention of the global community towards the important stakes and the many opportunities that this sector will create. IDE Trois- Rivières is now partner with BioMarine to showcase the latest developments coming from the scientific and academic community and the emergence of industrial applications which combine marine and land-based feed stock or natural biomass in order to produce the next generation of bio-packaging and bio-materials

This hybrid event will allow the BioMarine community to present successful projects and discuss the most recent developments in the field.

Seaweed is one promising raw material with positive externalities regarding climate change. It's part of the global equation that we will try to solve.

Pierre Erwes
Executive Chairman
BioMarine

BioMarine: a global community

1600 + active members

70 countries represented

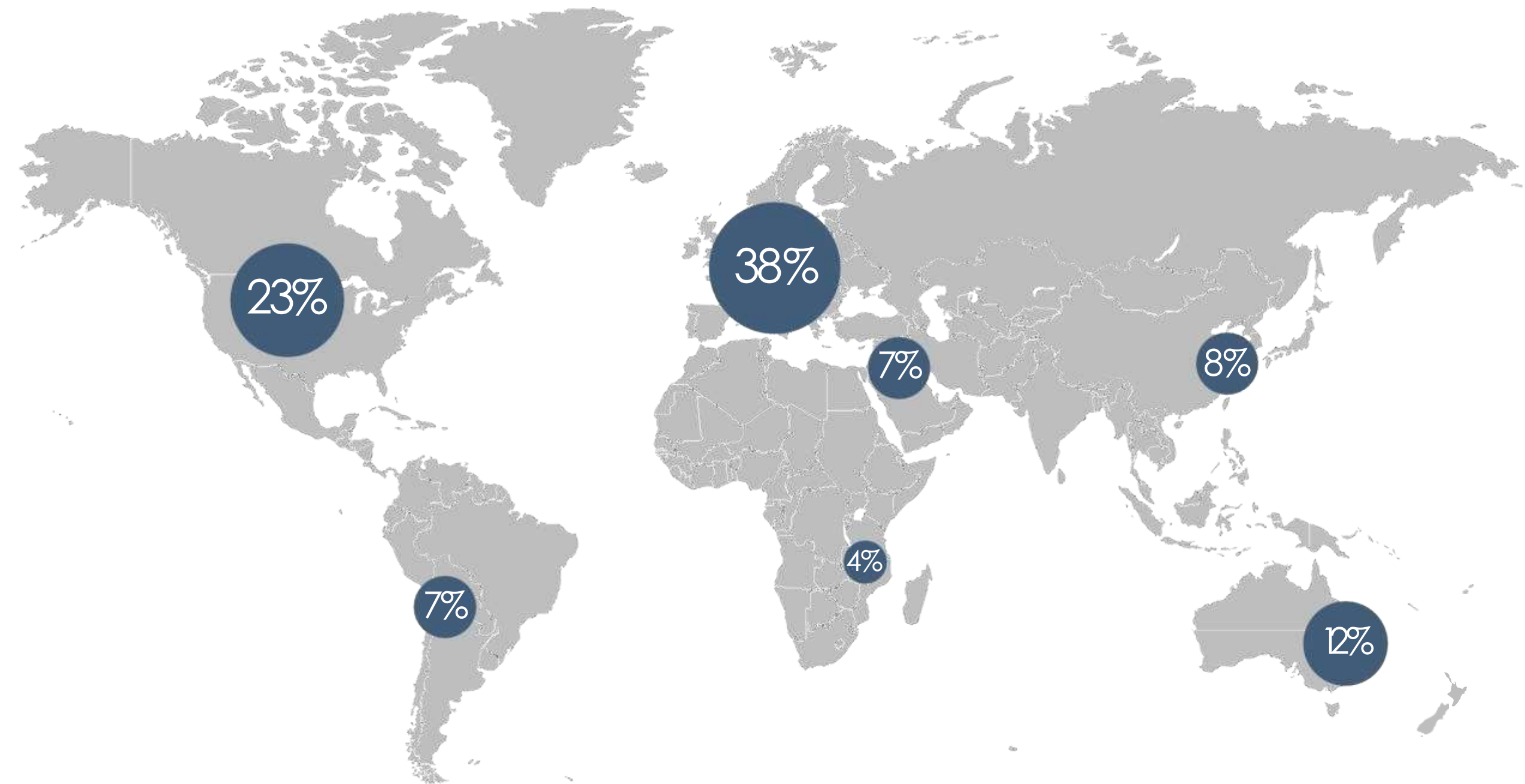
68 % industry

12% investors & finance

10% government agencies

8 % science&appliedscience

2 % others



Welcome words

“Amongst the plastic packaging produced annually, bio-based materials represent only 1%. Notably, the demand for bio-based materials for packaging is expected to grow up to 9.45 million tons by 2023. The issue of sustainability is crucial, encouraging politics, academia, and industry to develop sustainable and circular alternatives for preserving resources for future generations, focusing on biodegradable and bio-renewable materials. This new packaging approach will combine marine resources and forests.

Trois-Rivières, Quebec, Canada wants to showcase its leading expertise in the research of cellulose-based products involving wood components, algae and marine co-product. The entire region is supporting the development of a world center of competence and expertise on biomaterials and bio-packaging. The area will capitalize on the experience of its local actors, their international partners and its strong expertise inherited from the forest product industry.

On Nov 17 and 18, join us during this hybrid event (digital and onsite delegations) and discuss with international experts and industry.”

Mario De Tilly

General Manager

Innovation et Développement Economique Trois-Rivières, Qc, Canada

Program at a glance

1 DIGITAL PART

Nov. 17th from 2 PM to 5PM CET (Paris time): debates & panels

We will have dedicated topics: industrial packaging, secondary packaging, food packaging, advanced biomaterials for space and for airlines, feed stock / renewable sources, marine polymers, wood pulp new developments, composites.

Format:

1 Keynote : we will give the floor to an important contributor to share his vision.

2 Three thematic panel discussions:

- Introduction reserved to expert or sponsors
- Discussion with 1 moderator and 3 panelists
- Questions from the online audience

Nov. 18th from 2PM to 5PM CET : One-to-one prescheduled meetings

2- ON-SITE DELEGATIONS:

If you are interested in being on-site (@ Trois-Rivières, Qc Canada) after the event for more meetings and visits: more information about this very soon.



Program (1/4)

DAY 1: November 17th from 14h to 17h CET:

1:45 PM France

(7:45 AM Quebec, Canada)

General opening and welcoming:

Simon Kennedy, Deputy Minister at Innovation, Science and Economic Development Canada

2:00 PM France (8:00 AM Quebec, Canada) Session 1: Innovative food packaging

Current technologies aim to preserve the freshness and integrity of the food while providing businesses with a cheap and efficient way to package their goods. Although these technologies are efficient, their advances have allowed for far greater added values in food preservation while maintaining a low price for businesses. With growing concern for the environment, biodegradable polymers are now being investigated for food packaging while still maintaining mechanical strength and functionality. New recycling programs must work in conjunction with new technological shifts to address the growing concern of producing a more environmentally friendly method of food packaging. The management of packaging end-of-life is now at the heart of concerns and the development of new biodegradable packaging must take into consideration these new trends.

Moderator: **MODERATOR: Anis Ben Amor, Québec regional director , Natural Products Canada**

Panelists: **PANELISTS :**

Franck Lehmann, Vice President Corporate Venturing & Open Innovation, Amcor, Switzerland

Jean-Philippe Jacques, Directeur Innofibre, Qc, Canada

TBC Philip Wirsén Global Strategy and Channel Leader, Tetra Pak, France



Program (2/4)



3:00 PM Paris, France (9:00 AM Quebec, Canada)

Session 2: Industrial packaging & carbon footprint.

Polymers that are bio-based, biodegradable and/or compostable, play a significant role in the world thermoplastics market. Polymers that are wholly or partially derived from renewable feedstocks are responsible for 58% of production capacity. Biodegradable and/or compostable polymers make up the remainder. Many polymers, including land or marine based polymers, are bio-based (at least in part) in addition to being biodegradable such as cellulose, starch compounds, polylactic acid and chitosan. Why do biopolymers remain niche products in the global thermoplastics market? Biopolymers can be more expensive than their conventional counterparts. In addition, production volumes are comparatively limited, with only a few sizable manufacturers. Applications development is ongoing, especially in the case of some new bioplastics, thermoformed cellulosic pulp packaging and composites with biobased material and end users are still learning how to take full advantage of the materials' unique performance attributes.

Moderator: TBC Jean-François Samray, PDG du Conseil de l'industrie forestière du Québec

Panelists: **Maxime Cossette, Vice President, Fiber, Biomaterials and Sustainability, Kruger**
Lisa (Howdle) Boulton, Program manager (GHG Data and Analytics), Nestlé, Switzerland
TBC Alejandra Noren, Head of Partners Management, Neste, Switzerland
TBC Stuart MacDonald Head of Product, HoustonPoly, USA,Tx

Program (3/4)



4:00 PM Paris, France (10:00 AM Quebec, Canada)

Session 3: Biomaterials for the future.

Rapid progress in biomanufacturing is one of the drivers of this fast-growing trend. This new frontier in material science allows for the production of biobased products starting from very specific raw materials. These include micro algae, seaweed, cellulose fiber, agriculture byproducts, and any other natural ingredients. Production can go far beyond natural materials that have been known for millennia such as natural textiles, leather, wood and paper, which all derive from animals and plants. The session will explore some of the future development and push the limit of these frontiers

Moderator: **Simon Barnabé, directeur de I2E3, Université du Québec à Trois-Rivières, Canada**

Panelists: TBC Brice Andre L'Oreal DGO - Global Director Sustainable Packaging & Development, France

TBC: Tommaso Ghidini, Head of the Structures Mechanisms and Materials Division, European Space Agency, Netherlands

TBC: Ryan Dermody, President at Norcan Petroleum Group Inc. Canada

Program (3/4)



5:00 PM Paris, France (11:00 AM Quebec, Canada)

Session 3: Why Seaweed bio-plastic is becoming the next investment trend?

Several companies are recognizing the potential of seaweed, polymers to replace regular fossil carbon plastic. The road to success depends on many factors including, access to raw material access in sufficient quantities, expertise in process and preparing the right blends, and connections with industry to support the deployment of such solutions. The session will discuss the Solublu business case and their road to success.

Moderator: **Pierre Erwes, Chairman BioMarine, France**

Panelists: **Ayca Dundar, CEO Solublu , UK**
Warren Dowd , Managing partner BioMarine Capital, Canada
Mounir Boulkout, CEO Selt Marine group, USA
Antoine Erwes, CEO Alliga, France

Program (4/4)

DAY 2: November 18th from 14h to 17h CET:

One-to-one prescheduled meetings

The platform will allow each delegate to update his profile, connect with other delegates, request meetings, accept/refuse a meeting request. Their meeting schedule will be updated automatically.

Each meeting lasts 20 minutes, enough time to get interested in further collaboration and, why not, stay in contact for further business meetings.



Registration



Registrations: Link for the event is: <https://biomarine.org/events/55732>

- **PREMIUM MEMBERS:** If you are a Premium Member of BioMarine Community, this event is included in the Premium Membership. Please contact veronique.erwes@biomarine.org for your direct registration.

- **REGULAR MEMBERS and PUBLIC:** the fee for this 2 days event will be 200 euros (taxes included). All attendees will receive 10 days prior the event a private link to access the sessions/ one-to-one platform. They will be able to access the sessions, complete their professional profile, check the attendees, request meetings, accept or refuse meetings, send messages to all attendees.

Sponsor guide

| | BLACK PEARL SPONSOR | GREY PEARL SPONSOR | PEARL SPONSOR |
|--|---------------------|--------------------|---------------|
| Price in € (20% VAT will be added for French compagnies) | 5 000,00 € | 2 500,00 € | 1 000,00 € |
| Services | | | |
| BioMarine community : One-year complimentary Premium memberships : (includes access to community members, BioMarine digital workshops and content and 40% discount on physical event organized by BioMarine) | 15 | 10 | 5 |
| Complimentary passes to access the event | 15 | 10 | 5 |
| Visibility | | | |
| Logo on our website + Sponsor page + event’s platform | YES | YES | YES |
| BioMarine360° : Interview with key actors, SMEs and clusters in order to decipher in less than 12 min their vision, ambition and objectives. | YES | YES | YES |
| 1 Hour with (One hour debate with moderator and Q&A from online audience) | YES | YES | NO |
| | | | |

Contact

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