



STATION MARINE  
CONCARNEAU

# Les Rendez-Vous de Concarneau 2022

Where Industry meets Science in Marine  
Biotechnology

September 29th and 30th 2022  
PLACES: BREST & CONCARNEAU





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# Les Rendez-Vous de Concarneau 2022

## September 29th and 30th 2022

The international symposium « Les Rendez-Vous de Concarneau » takes place every year at the Concarneau Marine Station. It is intended to be part of a continuum between the fundamental research developed within the laboratories concerned and the applications of this research in marine biotechnologies. The symposium brings together a group of experts from the world of fundamental and applied research and industrials with a link to the maritime field with multidisciplinary and complementary skills and aims to provide technology and knowledge transfer between European stakeholders.





For this 2022 edition, we will focused on biomimetics on maritime transport during the session on Thursday 29 September as part of the SeaTechWeek at Brest: « Les Rendez-Vous de Concarneau invite themselves to Brest ». The 12th edition of the « Rendez-Vous de Concarneau » will be held on Friday 30 September at the Marine Biological Station of Concarneau. The meeting at Concarneau will be focused on biomimicry and biomaterials with a visit to a structure with a bioinspiration project in Concarneau.





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# Thursday, September 29th 2022

« Les Rendez-Vous de  
Concarneau invite themselves to  
Brest »

**PLACE: BREST (SeaTechWeek)**



Technopole  
Quimper-Cornouaille





## BIOMIMICRY IN MARITIME TRANSPORT

Moderators: Guillian GRAVES (Agence Big Bang Project) & Tarik CHEKCHAK (Futurs souhaitables)

- 9:15-9:30            Opening
- 9:30-9:50            Tarik CHEKCHAK (Futurs souhaitables)  
*Biomimicry: eco-design inspired by 3.8 billion years of R&D!*
- 9:50-10:10          Jian-Sheng SUN (MNHN)  
*Bioinspiration from marine biodiversity and ecosystems*
- 10:10-10:30        Olivier GIUSTI (BLUEFINS)  
*BLUEFINS: a foil to decarbonize maritime transport*
- 10:30-11:00        Coffee break**
- 11:00-11:20        Gwenaële COAT (The SEACLEANERS)  
*The Manta, a versatile bio-inspired ship*
- 11:20-11:40        Harold GUILLEMIN (FinX)  
*FinX, the nautical revolution through bio-inspiration*
- 11:40-12:00        Gwen LECHAT (Dotation Funds Pure Ocean)  
*#Floating Reef: Bio-inspired mooring buoy to sustainably preserve Mediterranean marine life and ecosystems*

**12:00-14:00        Lunch time**

**14:00-15:00        Plenary session « Training and career »**





## BIOMIMICRY IN MARITIME TRANSPORT

*Moderator: Jian-Sheng SUN (MNHN)*

- 15:20-15:40     Juliette VERSEUX (CEEBIOS) CANCELED  
*Marine Biomimicry, an opportunity for sustainable innovation in nautical field*
- 15:40-16:00     Elisabeth BANKEN (Fraunhofer CML)  
*Flying on Water: Air-induced friction-reducing ship coatings*
- 16:00-16:20     Gary BAGOT (ELWAVE)  
*From electric sense to CEDAR™ technology, the capabilities of a new bio-inspired subsea electromagnetic sensor*
- 16:20-16:40     Sabrina HAMMOUTI (ALPHANOV)  
*Laser technology, a novel and effective tool for maritime industry*
- 16:40-17:00     Damien GUIFFANT (VIDON)  
*Overview of biomimetic patented inventions in the maritime field, as derived from patent mapping analysis*
- 17:00-17:30     *Coffee break / end***





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Friday, September 30th 2022

## « Les Rendez-Vous de Concarneau »

PLACE: CONCARNEAU (Marine Station)





## BIOMIMICRY AND BIOMATERIALS

Moderator: Tarik CHECHAK (Futurs souhaitables)

- 9:00-9:10 Nadia AMEZIANE & H el ene SALIN (MNHN)  
*Opening*
- 9:10-9:30 Guillian GRAVES (Agence Big Bang Project)  
*Innovations inspired by nature*
- 9:30-9:50 Alain RENAUDIN (NewCorp CONSEIL & Biomim'expo)  
*Biomimicry, the new emerging trend*
- 9:50-10:10 Emmanuel POISSON-QUINTON (Explore)  
*A look back at 10 years of biobased composites exploration*
- 10:10-10:30 Amandine ADRIEN (University of Pau and Pays de l'Adour)  
*From nature's design to marine bio-based materials for regenerative medicine*
- 10:30-10:50 David GREGOIRE (University of Pau and Pays de l'Adour)  
*Biinspiration from natural mother-of-pearl: from biomimicry to waste recovery in construction materials*
- 10:50-11:10 Coffee break**





## BIOMIMICRY AND BIOMATERIALS

*Moderator: Catherine BOYEN (Station Biologique de Roscoff)*

- 11:10-11:30 Marion PADIOLEAU (Finsulate France by Blue Innov)  
*The sea urchin: a great source of inspiration for turning the invisible into the visible*
- 11:30-11:50 Claire HELLIO (Université de Bretagne Occidentale)  
*Title to be confirmed*
- 11:50-12:10 Patrick FLAMMANG (University of Mons UMONS)  
*Aiming for the stars: Characterization and production of sea star adhesive proteins for bio-inspired materials*
- 12:10-12:20 End
- 12:20-14:00 Lunch time**

## VISIT TO LOCAL INDUSTRIES

- 14:00-16:30 Visits to: Explore and Mer Concept (Concarneau)

