



Editorial



Technopole Brest Iroise celebrated 20 years of service to innovation last September 4th.

Looking back on this occasion shows how far we have come from 1989 to today : 110,000 m2 built out, 200 million euros invested, 2,000 jobs created.

This underlying work is done each day by Technopole teams. Their work is at times frustrating because it is always in the background; it is their role to work towards successes but always out of the limelight.



Left to right: Pascal Mailhos, Prefect of Finistère ; Jean-Yves Le Drian, President of the Brittany Regional Council ; François Cuillandre, President of Brest métropole océane ; Marc Labbey, President of Technopôle Brest-Iroise.

On that anniversary day, many subjects were brought up. We have focused on 3 which will interest you with their international relevance.

« **Exports** »: The President of the Brittany Regional Council, Jean-Yves Le Drian, called on the attending business partners to export more and to focus abroad. « **One cannot isolate innovation from the international.** For the first, Brittany ranks 5th nationally, for the second, it is only in 13th or 14th place. We are behind. It is up to us here in the west to gather strength and assert ourselves to the east. »

The Brest metropolitan area has always supported and encouraged the businesses in its territory to export their knowledge and know-how. In this 5th issue, we'll take a look at economic missions hosted, organized and to come (China, Vietnam, Mexico, Quebec).

« **Head of the Class** »: The choice of Brest for the **ClimSAT** center by the United Nations a year ago shows that our territory is present on the international scene in the crucial arena of **adaptation to climate change**. We'll report back on the international meeting organized around this theme in Brest on October 21st and 22nd, sponsored by UPDP and the FAO.

Brest was also « head of the class » when the State chose Brest as the site of the technical platform for renewable marine energy (offshore windfarm, marine turbines...).

« **Innovate** » : Defense industries, the bedrock of Brest's economic development, continue to suffer. The Brest metropolitan area, with the support of the State and of Brittany, endows its territory with the infrastructure that will make the difference. In this issue, we'll cover the September inauguration of the **Vigisat** station, the first civilian station for direct capture of high-definition satellite radar images.

I send you my very best wishes for success, prosperity and health in the year 2010 !

Marc Labbey,
President of Technopôle Brest-Iroise

Brest will host the 14th WPMC Convention in 2011

As an extension of the collaborative agreement that has linked Yokosuka Research Park (Japan) and Technopole Brest-Iroise since 2002, the [Images & Réseaux cluster](#) has also been able to meet with our Japanese partner. As an initial fruit of this new collaboration, the Brittany Region applied for and was accepted as host for the 14th convention on WPMC [**Wireless Personal Multimedia Communications**] which will be held in Brest in October of 2011. This annual international symposium brings together scientists and industrialists from the world over around the themes of multi-media, convergence and mobile devices.

Event organizing will be shared among innovators in Brittany in the arena of ITC, with core leadership from [Telecom Bretagne](#), Images & Réseaux cluster and Technopôle Brest-Iroise.

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[International collaboration]

[CHINE]

SOA delegation visit – October 14th/15th, 2009

On October 14th and 15th, Brest welcomed a high-level delegation from « SOA » [[State Oceanic Administration](#)], the Chinese institution in charge of « oceanographic » research and development [development of ocean science, protection and exploitation of the ocean, climate].

SOA has developed an active partnership with [IFREMER](#) in the vast arena of oceanography.

The goal of their visit to Brest was to contact established enterprises that offer oceanographic products and services.

The delegation led by Mr WANG Hong, General Director of SOA, included among others Mr XU Sheng, director of the nation center for marine information, and Mr Luo Xuyue, Director in chief of the national technology center.

The delegation's agenda was organized around meetings with [CLS](#) and [Littoralis](#), a visit to the new CLS radar detection center, and a presentation on image and data mining for traffic monitoring, pollution detection...

The second part of their visit concentrated on on-site weather-oceanography techniques developed by Littoralis and Ifremer. These applications [coastal zone management, harbor development, marine energy, climate change] being among the national priorities assigned to SOA.

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« Maritime ITS » meetings in Shanghai, November 2009

November 6th-19th, 2009, a Brest delegation of some 25 people traveled to Shanghai for the 6th « Maritime Science and Technologies » International Symposium – MITS 2009.

The meetings were organized jointly by [Technopole Brest Iroise](#), the [Shanghai Maritime University](#), the [Lingang Marine Science Park](#) and the [Shanghai Academy of Science & Technology](#).

Concurrently over the three days, two other major events were held: « The Sino French Technology Transfer and Network » hosted by the [CURIE](#) and SITTNET associations, and the « Shanghai Ocean Symposium » organized by the Shanghai Ocean Forum.



Pr Jin Yongxin, Vice-President of Shanghai Maritime University

Many industrialists and scientists in the maritime arena were thus in Shanghai during that week to discuss the state of the art, innovations and research around the three themes chosen by MITS for this year:

- « E-navigation »
- « Surveillance and observation networks »
- « Sustainable development of oceans »

More than a hundred European and Chinese attendees also had the opportunity to develop and strengthen their economic and scientific ties, while attending presentations and seminars dedicated to dialog and to setting up future collaborations between the two territories.

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[VIETNAM]

Knowledge Transfer and Sharing: Two IMER researchers spend October in Brest

Brest welcomed 2 Vietnamese researchers from **IMER** (Institute for the Environment and Maritime Resources) during the entire month of October.

Do Thi Thu Huong, a 31-year-old woman, researcher in the department of Remote Sensing and GIS [Geographical information systems], train at [Nasca Géosystèmes](#). Her objective was mining and visualization of pollution and silting data from the port of Hai Phong. She learned how to use very powerful programs (ARCMAP and ArcGIS). She also worked on the Nasca program that interprets data using “fuzzy logic”

Duong Thanh Nghi, a young researcher specializing in chemical analysis of organic micropollutants in the maritime environment, trained on pesticide and hydrocarbon analysis at [IDHESA Bretagne Océane](#). This training will give him the methodology and know-how of a linked laboratory for the quality of his analyses.

A grant to cover expenses for the 2 young researchers trips was obtained from the Ministry of Foreign and European Affairs by **Brest métropole océane**.

This training mission was part of the **preliminary study for implementation** of a « **bay contract** » signed in **July 2008** among the following: Littoralis, Idhésa, Nasca Géosystèmes, [University of Western Brittany](#), Technopôle Brest Iroise, the People's Committee of the city of Hai Phong and the Institute for the Environment and Maritime Resources (IMER) based in Hai Phong. It is **financed in part** by the [Fondation Véolia Environnement](#).



Left to right : Eric Jordan [Nasca Géosystèmes], **Duong Thanh Nghi** [Imer], Marie-Marguerite Bourbigot [Véolia Environnement], **Do Thi Thu Huong** [Imer], Gaël Durand [Idhésa] and, in the second row, Eric Vandembroucke [Technopôle Brest-Iroise].

The study's objective is **initial analysis and cartography work on the sources of bay pollution as well as educating the principal stakeholders on the functional guidelines of a bay contract**.

It will take place over approximately **18 months**. The results will be presented at the next meetings of the decentralized Franco-Vietnamese collaboration, to be held in Hai Phong in the fall of 2010.

[MEXICO]

Environmental Protection and Collaborative Public Policy: Mexico and France inaugurated the **Jacques Yves Cousteau Observatory** last June in La Paz.

The observatory is one of the pilot projects for Franco-Mexican cooperation. It is to contribute toward **defining public policy on maritime and coastal development, balancing economic growth and respect for ecosystems**.

The scientific bodies associated with it are: in Mexico: [CIBNOR](#) (Northwest center for biological research), [CINVESTAV](#) (Center for research and advanced studies), [CIEMAD](#) (Interdisciplinary center for sustainable development), [UABC](#) (Baja California free university). In France they are the Institute for research and development ([IRD](#)), the French Institute for research in maritime resources (Ifremer), the University of Western Brittany (UBO).

In October, Mexican scientists came to Brest to work with their counterparts. **Jon Rementeria, Mayor of Vera**

Cruz, was part of this delegation. As a follow-up to that visit, potential collaborations are being explored.

The Mayor of Vera Cruz also co-chaired a group work session at the international symposium organized in Brest under the sponsorship of UNDP and the FAO.

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[QUEBEC]

Final economic and scientific mission of the « Jeanne d'Arc » helicopter carrier in 2010! Our American cousins will be the last to be invited by the Brest mission aboard one of the most prestigious vessels of the Marine Nationale. **Quebec will host the mission April 10 – 17, 2010.**

The agenda for the delegation will be established by Brest métropole océane, Cci de Brest and Technopôle Brest-Iroise with the support of the General Counsel of Finistère.

[Climate Change]

One year after the first global Regions summit, five continents meet in Brest

More than 200 people from 5 continents met on October 21st and 22nd 2009 **for workshops held in Brest** under the aegis of the United Nations Development Programme (UNDP) and the Food and Agriculture Organization of the United Nations [**FAO**]: « **Territories, agricultures, fisheries and forest sectors faced with climate change: a better understanding of vulnerabilities for a more efficient response** ».

For the first time, green sector professionals held the floor for 2 days. **Their recommendations have been submitted at Copenhagen in December** [Climate Change Conference] and will be submitted **at Dakar in January** [Summit of the World's Regions on Food Security].



Work session

While in **Copenhagen world leaders** must demonstrate that they are ready to commit to reducing climate change, **in Brest leaders on the ground** came together to exchange what they experience day-to-day and to share actions plans to be put in place.

Professionals from the North and the South, representing different management systems for **fisheries, agriculture and forests**, discussed among themselves and with **representatives of local and regional authorities** from the North and South in order to **find solutions together**.

This dynamic was born in Saint-Malo a year ago during the Summit of the World's Regions. Until then, only scientists, governments and the ONG had given their opinions on climate change. **The importance of the regional level in effectively fighting against it was clearly affirmed at the Saint-Malo Summit.**

It was during the Saint-Malo Summit that the UNDP [United Nations Development Programme] announced the creation in Brest, in partnership with local Brittany authorities, of ClimSAT, a **center of expertise to study the vulnerability of territories in the face of climate change.**

The « Think globally, act locally » approach continues to take hold and **finds in Brest a proving ground for a global consultation and coordination that takes into account the difficulties on the ground.**

The Brest Meetings will become a **regularly scheduled event** in order to prolong and deepen the dialogue and **to integrate new research developments and concrete experiences.**

More information and videos

<http://undpfao2122oct.wordpress.com/>



Dinne rat the « Château de Brest »



Summary session with Dominique Cap, Vice-président of Brest métropole océane in charge of international relations ; John Hough, UNDP ; Richard China, FAO, Italy

[Renewable Marine Energy]

Brittany's elected officials obtained sitting in Brest for the marine energy technology platform announced by the President of the Republic last July.

The official announcement was made on December 2nd by the **Prime Minister, François Fillon**, at the closing session of the 5th « Maritime Economy » meetings, being held in Brest.

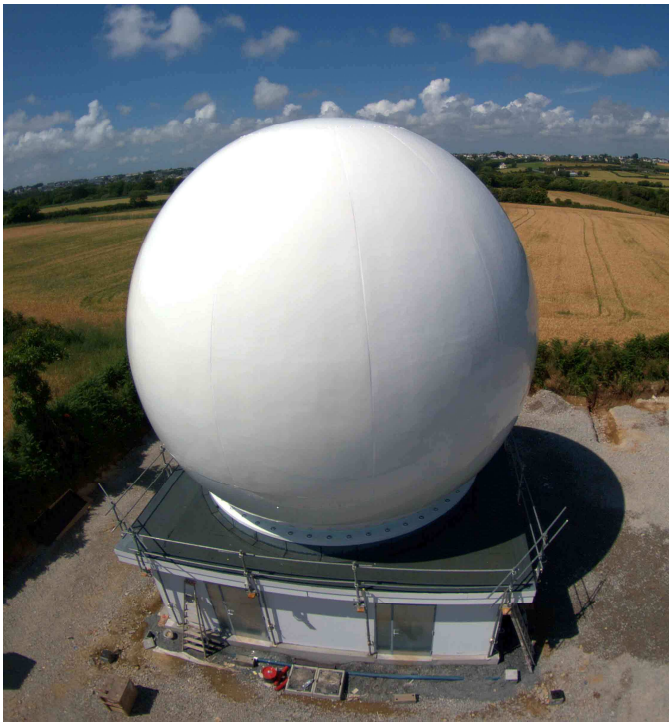
Conceived as the **bridgehead of a public/private association**, the marine energy platform will be charged with three types of missions concerning **research, industrial innovation, training.**

Ifremer, here in Brest, has been named project leader. Brest offers all the human and technical resources needed for the **development** of a national technology platform for marine energy **and** for the **creation**, in the Iroise maritime park, of a **test site for an offshore wind farm.**

[Maritime Safety and Security]

Vigisat: France funds its first civilian station for direct capture of high-resolution radar satellite images and keeps the seas under watch from Brest

Vigisat's receiving antenna was inaugurated on its site in Technopole Brest-Iroise in mid-September. Ten meters in diameter and 14 meters high, the antenna will capture SAR-type satellite images. It is owned by CLS (a subsidiary of Ifremer and CNES). It will allow Brittany researchers and industries to have their own source of radar images of continental France. Once interpreted and analyzed, these images can be used for tracking maritime traffic, maritime safety, and the protection and further knowledge of the environment...



The project is part of a joint initiative. It is supported by a consortium of scientific bodies led by Télécom Bretagne and strongly backed by Brittany's local authorities [Région Bretagne, Conseil Général du Finistère, Brest métropole océane].

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[Noticeboard]

A delegation from Guyana visits Brest

Philippe Lacombe, Guyana Regional Delegate for Research and Technology and Karine Rinna, Bioressources manager at Guyana Technopole, came to Brest on a two-day observation mission to meet with potential partners in one of Guyana Technopole's pilot projects, the European Center for Guyana Biodiversity Valorization, code named CEBio. Numerous scientific collaborations are already in place with the laboratories of the University of Western Brittany. They also met with Océanopolis, the Botanic Conservatory and Technopôle Brest-Iroise.

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Yves-Marie Paulet named director of the Institut Universitaire Européen de la Mer (IUEM).

Age 47, he is a professor of marine biology at the University of Western Brittany.

The IUEM is a 650-person institute with a tri-fold mission: teaching marine sciences at the Masters and doctorate levels, pluridisciplinary research on the impact of climate change on marine ecosystems and monitoring of ocean and coastal environments within the framework of the CNRS universe sciences observatory network.

In 2009, IUEM launched new training curriculum internationally.

International Antarctic Masters

A high-level program on polar regions, students and teacher exchanges through the global university network based in Hobart, Tasmania (Australia): [IAI \(international antarctic institute\)](#).

Masters in partnership with [Diponegoro University in Indonesia](#)

A dual master in marine sciences and coastal zone management, a product of the many research collaborations IUEM has developed with Indonesia.

International master in partnership with South Africa

Thematics: ocean, climate and marine resources.

For more information: <http://www-iuem.univ-brest.fr/>

[AGENDA]

saferseas Safer Seas 3rd Brest

10th to 13rd May 2011

more information: www.saferseas-brest.org/

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contributions!**

Inform others about your projects, achievements, conference dates and other items of interest.

Send articles for the attention of

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