



*Monaco, December 12th, 2011*

**UNDER THE HIGH PATRONAGE AND  
WITH THE PARTICIPATION OF H.S.H. PRINCE ALBERT II**

**IN THE PRESENCE OF S.E.M. MICHEL ROCARD,  
FRENCH AMBASSADOR IN CHARGE OF THE NORTH AND SOUTH POLES**

## CONFÉRENCE

### **CENTENARY OF THE CONQUEST OF THE SOUTH POLE 100 years in the history of the Antarctic, new environmental issues and future challenges for technology**

Wednesday, December 14th, 2011, from 6 to 7.30 p.m.  
at the Museum of Oceanography in Monaco

On the occasion of the centenary of the conquest of the South Pole by Roald Amundsen, and at the initiative of H.S.H. Prince Albert II, Venturi Automobiles is organizing this conference in partnership with the Prince Albert II of Monaco Foundation.

A land of science, the Antarctic is a multidisciplinary laboratory consisting of an entire continent : its understanding is vital in the approach to environmental issues now preoccupying all mankind.

A continent which offers the world of research a universe both fascinating and hostile.

For over a century, and in order to shoulder these challenges, the Antarctic has also been a land of multidisciplinary innovations.

More than ever before, these innovations must be embodied in tools backed by neutral technological solutions for this very special environment.

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**PRESS CONTACT ANTARCTICA 1911 - 2011**

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## THE INITIATIVE

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The only Head of State to have visited the two poles, H.S.H. Prince Albert II of Monaco crossed a large part of the Antarctic continent in a 3-week trip in 2009.

Setting off to meet the world of science, H.S.H. Prince Albert visited 22 bases to discuss various problems with researchers of all nationalities, especially those related to climate change.

It was during this trip and his tour of the Princess Elisabeth Station, entirely powered by renewable energies, that H.S.H. Prince Albert II decided to initiate the first experimental project with electric vehicles in the Antarctic, based on 100% renewable energies.

This highly technological project was entrusted to the Monaco-based firm Venturi Automobiles, developed in partnership with the CEA and backed by the Prince Albert II Foundation.

In the future, this initiative could lead to the introduction of a clean and economical mode of terrestrial transport in the Antarctic, taking men and equipment to study sites and addressing logistical issues which are pre-requisites for all scientific activities.

The day-long work sessions which will precede the conference in the Principality form part of the global approach adopted by Prince Albert II : the creation of inter-related actions between different fields to encourage the development of projects designed to protect nature and support scientific research. Projects which can also be applied to everyday life.

Always at the heart of the conquest of the South Pole, innovation is now being perpetuated in the form of tools and resources contributed to science and preservation of the continent. The "Venturi Antarctica" programme is part of this project.



## THE CONFERENCE

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The conference will bring together some of the top experts on the Antarctic. Focusing on his/her speciality, each one will present an up-to-date survey of the White Continent : the stakes involved at environmental level, legal status, current stages of research, future challenges for technology...

### Moderator :

**Christine OBERDORFF**, editor-in-chief of Ushuaïa TV.

### Speakers :

- **H.S.H. PRINCE ALBERT II OF MONACO**
- **S.E.M. Michel ROCARD**, French ambassador in charge of international negotiations for polar regions, the Arctic and Antarctic.  
Honorary President of the NGO "Le Cercle Polaire" ([www.lecerclepolaire.com](http://www.lecerclepolaire.com))
- **G rard JUGIE**, Research Director Emeritus at the CNRS, former Director of the "Institut Polaire Franais Paul Emile Victor" ([www.institut-polaire.fr](http://www.institut-polaire.fr))
- **Robert CALCAGNO**, General Director of the Institute of Oceanography of Monaco ([www.oceano.mc](http://www.oceano.mc))
- **Yvon Le MAHO**, Physiologist, Research Director at the CNRS ([www.iphc.cnrs.fr](http://www.iphc.cnrs.fr))
- **Florence LAMBERT**, responsible for the battery and fuel cell programme at the CEA ([www.cea.fr](http://www.cea.fr))
- **Gildo PALLANCA PASTOR**, President of Venturi Automobiles ([www.venturicars.com](http://www.venturicars.com))
- **Alain HUBERT**, Founder and President of the International Polar Foundation.  
Participating via duplex transmission from the Princess Elisabeth Research Station in the Antarctic. ([www.polarfoundation.org](http://www.polarfoundation.org))
- **Geir O. KL VER**, Director of the FRAM Museum and **the descendants of Roald AMUNDSEN and Robert Falcon SCOTT**.  
Participating via duplex transmission from the FRAM Museum in Oslo ([www.frammuseum.no](http://www.frammuseum.no))

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## Conference programme

- **PROJECTION OF "ANTARCTIQUE 2011 – OBJECTIF PÔLE SUD"**, a documentary produced by **Monaco Info**.
- **THE SAGA OF THE POLE, 100 YEARS : VIA DUPLEX WITH THE FRAM MUSEUM**  
**Message from H.S.H. Prince Albert II** to the Director of the FRAM and the descendants of AMUNDSEN and SCOTT.
- **1911 – 2011 : 100 YEARS OF TECHNOLOGICAL HISTORY IN THE ANTARCTIC**  
by **Gérard JUGIE**, Research Director Emeritus at the CNRS, former Director of the IPEV.
- **THE ANTARCTIC TREATY, UNIQUE LEGAL STATUS**  
by **H.E. Michel ROCARD**, French Ambassador in charge of international negotiations for polar regions, the Arctic and Antarctic.
- **THE ANTARCTIC, A LAND OF EXPERIMENTATION :**
  - **THE SOUTHERN OCEAN**  
by **Robert CALCAGNO**, General Director of the Institute of Oceanography in Monaco.
  - **SCIENTIFIC RESEARCH IN THE ANTARCTIC**  
by **Yvon LE MAHO**, Physiologist, Research Director at the CNRS
  - **TECHNOLOGICAL INNOVATION IN THE ANTARCTIC**
    - **DUPLEX TRANSMISSION : HSH PRINCE ALBERT II WITH ALAIN HUBERT** from the Princess Elisabeth station in the Antarctic
    - **EXPÉRIMENTAL "VENTURI ANTARCTICA" PROGRAMME**  
presented by **Gildo PALLANCA PASTOR** (Venturi) and **Florence LAMBERT**

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## ORGANIZERS & PARTNERS



In June 2006, H.S.H. Prince Albert II of Monaco decided to set up his Foundation, in order to address our planet's alarming environmental situation. The Prince Albert II of Monaco Foundation is dedicated to the protection of the environment and the promotion of sustainable development at an international level. The Foundation supports initiatives conducted by public and private organisations within the fields of research, technological innovation and activities to raise awareness of the social issues at stake. The Foundation funds projects in three main geographical regions: The Mediterranean Basin, the Polar Regions and the Least Developed Countries. The Foundation's efforts focus on three main sectors: Climate change and renewable energies, biodiversity, and integrated and sustainable water resources management together with the fight against desertification.

To find out more: [www.fpa2.com](http://www.fpa2.com)

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VENTURI



## VENTURI GLOBAL CHALLENGES

The "Venturi Global Challenges" consist of a series of technological, but also human, challenges through which the brand intends to demonstrate its progress in the field of electric propulsion. Each challenge, which takes the form of a specific mission, takes place on a different continent and enables the company to set new records while demonstrating the reliability, energy efficiency and robustness of Venturi electric vehicles under extreme conditions.

### MISSION ANTARCTICA

After his journey in Antarctica which objective was to evaluate the impact of global warming on this continent, HSH Prince Albert II has imagined and initiated the first experimental project of electric vehicle in Antarctica which is, furthermore, based on 100% of renewable energy. The Venturi Global Challenges' mission 03 aims to prove that zero-emission vehicles are capable of functioning under the extreme weather conditions of the Antarctic instead of the very polluting vehicles currently used.

This very high-tech project was entrusted to Venturi Automobiles and supported by Prince Albert II of Monaco Foundation in partnership with the International Polar Foundation. As a main initiative, it could allow, in the future, all stations based in Antarctica to introduce a clean and economic way of transportation compared to the environmental impact and cost of the fuel currently used. The Venturi Antarctica is an electric vehicle specifically developed for being used in Antarctica. It recharges its batteries with renewable energies such as sun and wind. It will be the first electric vehicle to go to the South Pole.

### VENTURI AUTOMOBILES

For more than ten years, Venturi Automobiles has pursued an ambitious innovation policy in the field of electric cars. Mastering the most advanced technological solutions in this sector, Venturi's expertise ranges from the urban car to high-performance vehicles.

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## **International Polar Foundation (IPF)**

The International Polar Foundation (IPF) is a public utility foundation founded under Belgian law in 2002 by civil engineer and famous polar explorer Alain Hubert.

Scientific research at the heart of the Polar Regions unveiled the secrets of the past climate of our Earth and teaches us that our ways of life have a major influence on global warming.

This discovery should radically change our relationship to the Earth.

Only through a better scientific education will the next generation be able to make the right choices to anticipate the threats posed by climate change, and address them coherently and efficiently.

This is precisely why the IPF aims at promoting education and science, and sets up emblematic projects such as “Princess Elisabeth” – the first “zero emission” polar station -, the “Class Zero Emission” educational workshops, or the Polaris observatories for climate change which will soon open to the public.

Doing so, the IPF demonstrates that the progress that can be made where there’s a will to collaborate and act.

“Understanding the poles to build a sustainable future”

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energie atomique • énergies alternatives

« The CEA is the French Alternative Energies and Atomic Energy Commission (Commissariat à l'énergie atomique et aux énergies alternatives). It is a public body established in October 1945 by General de Gaulle. A leader in research, development and innovation, the CEA mission statement has two main objectives : To become the leading technological research organization in Europe and to ensure that the nuclear deterrent remains effective in the future.

The CEA is active in four main areas: low-carbon energies, defense and security, information technologies and health technologies. In each of these fields, the CEA maintains a cross-disciplinary culture of engineers and researchers, building on the synergies between fundamental and technological research.

The CEA is based in ten research centers in France, each specializing in specific fields. The laboratories are located in the Paris region, the Rhône-Alpes, the Rhône valley, the Provence-Alpes-Côte d'Azur region, Aquitaine, Central France and Burgundy. The CEA benefits from the strong regional identities of these laboratories and the partnerships forged with other research centers, local authorities and universities.

#### **A FEW FIGURES AND RESULTS :**

15 718 employees

10 research centers

Budget of 3,9 billion euros

120 new companies established since 1984 in the high-technology sector

25 correspondent research laboratories (LRC) associated with the CEA.

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*Institut polaire français : Resource and services agency for scientific research in the polar regions*

*The French Polar Institute, IPEV, provides human, logistical, technical and financial resources and also the legal framework necessary for developing French scientific research in the polar and subpolar regions.*

*These regions' isolation and extreme climates make it imperative for operators to have highly specific technical knowledge and skills. The Institute brings together specialist professionals in polar logistics, turning to good use its knowledge of harsh environments and special range of skills to coordinate, support and run an annual 60 to 80 science and technology programmes in the higher latitudes of the globe, both North and South.*

*At the IPEV's headquarters in Brest, permanent teams about 50 strong, two-thirds of whom are made available on secondment by the CNRS, manage the resources necessary for organizing scientific expeditions.*

*In the Antarctic and the subantarctic islands, around 200 seasonal or winter staff are deployed over the various bases. They provide the support for over 200 research scientists in their fieldwork operations.*

*For the Arctic, 100 or so scientists leave each year with the support of IPEV.*

*Personnel from 30 or so different professions, including engineers, logistics specialists, instrumentation operators or managers and scientific field managers, develop advanced technological field systems adapted to harsh and sometimes extreme environments and climates.*

*With its savoir-faire and the scientific platforms deployed, IPEV is helping to bring to the fore the vital importance of the poles and enhancing the general public's awareness of the special issues inherent to these regions.*

*On the international scale, the Institute contributes to consultations and collaborates on scientific, logistical and environmental questions associated with the polar regions. It does this through such organizations as the European Polar Board, the Council of Managers of National Antarctic Programmes and the Antarctic Treaty Consultative Meeting.*

*IPEV is also responsible for operating Europe's largest oceanographic research vessel, the Marion Dufresne, which each year takes 300 scientists on board for expeditions to any of the seas of the globe.*

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[www.lecerclepolaire.com](http://www.lecerclepolaire.com)

*The NGO le Cercle Polaire aims to develop and promote a true scientific understanding of the Arctic and Antarctic regions, and to encourage the preservation of the polar environments.*

*Le Cercle Polaire public awareness actions includes cultural events (exhibitions, conferences and festival), publication of a six-monthly magazine dedicated to polar regions (Pôles Nord & Sud) and an international awareness campaign, The Call of the Poles.*

*Its work involves assessing the climatic, environmental, geopolitical and economic issues confronting the Arctic and the Antarctic, stressing the notion of "inhabited region" for the former. Greater knowledge of the Polar Regions is critical to understanding global climate dynamics and the processes behind global warming. The NGO le Cercle Polaire promotes the principles of international control over and management of the polar environments, through either the reinforcement of existing regulatory frameworks or the introduction of new regulations. Le Cercle Polaire is parts of the European programme ACCESS (Arctic Climate Change, Economy and Society).*

***L'Appel des Pôles :***

*Launched by Le Cercle Polaire in more than 40 countries, the Call of the Poles campaign has received testimony from politicians, scientists, photographers and adventurers committed to protecting the Polar Regions, the Arctic and the Antarctic. A collection of contributions made by two hundreds enlightened key figures hailing from more than forty countries, this mosaic of different points of view is an inventory of the main concerns relating to the Arctic and the Antarctic. From Kiev to Nuuk, via Quito and Seoul, The Call of the Poles brings to light the existence of global awareness of the fragility of the polar environments and the urgent need to protect them.*

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Musée  
océanographique  
de Monaco

The Oceanographic Institute is committed to enhancing the knowledge of the richness and fragility of the oceans, and promoting their sustainable management and rational and efficient protection.

To achieve this, the Institute ensures the mediation between scientific and socio-economic actors on the one hand, and general public and decision-makers on the other.

The Oceanographic Institute upholds and shares its mission following the wish of its founder Prince Albert I<sup>st</sup> of Monaco: « knowing, loving and protecting the oceans ».

#### **Knowing**

- Promote advanced knowledge of the oceans to ensure the scientific grounds for responsible political action;
- Develop a network of partnerships allowing the mobilization of the most recent knowledge;
- Popularize and share scientific knowledge to make it accessible to the greatest number of people, and match scientific results with public need;
- Put forward the essential role of the oceans and of marine biodiversity for our environment and raise awareness on the dangers threatening them, all the while identifying solutions;
- Develop a global vision of the issues, uniting their environmental, economic and social aspects;
- Communicate through various means covering all types of public: the Oceanographic Institute in Paris and the Oceanographic Museum of Monaco for expert meetings, public conferences, exhibitions; from paper editions to numeric aids and online documentation.

#### **The mission of the Oceanographic Institute, Foundation Albert I<sup>st</sup>, Prince of Monaco**

#### **Loving**

- Move the public with the beauty of marine life;
- Put on show an original and fascinating association of the Living, Science and Art, blended together since the creation of the Paris and Monaco institutions;
- Entertain the public through a modern and fun approach to the world of the oceans;
- Put forward the exceptional heritage of the scholar Prince Albert I<sup>st</sup> and the exemplary commitment of H.S.H. Prince Albert II of Monaco.

#### **Protecting**

- Work with the political decision-makers, international institutions and opinion leaders to accelerate decisions and actions towards the protection of the oceans;
- Identify and promote balanced and realistic solutions;
- Advise political decisions based on scientific analysis integrating the environmental, economic, social and judicial aspects;
- Catalyze innovations, encourage initiatives and share good practice for the protection of the oceans;
- Raise public awareness and point out their ability to take action;
- Mobilize and favour the commitment and positive actions of the general public encouraging “good practices”.

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### **Current News**

The Oceanographic Institute leads since 2010, along with the Foundation Prince Albert II, the Monaco Blue Initiative (MBI). Created under the initiative of H.S.H. Prince Albert II of Monaco, the MBI is a platform for thought and connection between different actors (scientific, economic, political and associative) sharing a common commitment towards the sustainable management and the preservation of the oceans.

The MBI creates synergies between economic, social and environmental actors around a common management project for marine areas from which each actor can benefit. Therefore, it develops and promotes a new vision of the spatial management of human activities in relation to marine biodiversity, based notably on the establishment of Marine Protected Areas (MPAs).

The third edition of the MBI will be held on the 4th June 2012 within the World Expo of Yeosu in South Korea, whose theme is « the Living Ocean and Coast », and will focus on the integrated management of MPAs.

In addition, the Oceanographic Institute organized an international Conference entitled « For the sustainable management of the deep seas: differing perspectives » on the 13th October 2011 uniting scientific and economic minds to create an overview of current knowledge of the deep seas and identify the essential proposals and actions towards a sustainable exploitation, based on the precautionary principle, with adapted tools of international governance and protection of the deep seas.

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