





Conference Venue
Bucerius Law School
Moot Court
Jungiusstrasse 6
20355 Hamburg, Germany



EU-U.S. Conference Series

Sustainable Oceans: Reconciling Economic Use and Protection

Conference No. 1

The Use of the Oceans' Energy Resources, Risk Management, and the Need for Regulation

Hamburg, June 29 - July 1, 2011

Under the High Patronage of S.A.S. Le Prince Albert II de Monaco

Conference Venue
Bucerius Law School
Moot Court
Jungiusstrasse 6
20355 Hamburg, Germany

#### **Conference Bureau**

Responsible:

Susanne Ferch, Dräger Foundation Christin Grope, Dräger Foundation Barbara Langholf, Dräger Foundation

Phone: +49 451 882 3258

The way our world will look in the future is something that will not be determined in the future, but today – and to some extent by the way we face up to the key social, economic, and environmental challenges of our time. Upholding this philosophy of Heinrich Dräger, the Dräger Foundation – established in 1974 – wishes to bring people together to jointly develop ideas for the future within the framework of an international exchange. Previous conferences of the Dräger Foundation that dealt with questions of energy security and climate change brought the oceans and their significance for the world's climate, biodiversity, and human life into the Foundation's focus. The oceans cover some 70% of the Earth's surface, provide 97% of its water supply, boast more than 50% of its biodiversity, and through their vast resources and raw materials form one of the foundations for the quality of human life.

Following on from the Dräger Foundation's XVII Malente Symposium in 2008, entitled 'More than Water – Oceans and Global Responsibility', the Foundation is launching further conferences devoted to the subject of oceans. In cooperation with the Cluster of Excellence 'The Future Ocean', Kiel, and The Earth Institute of Columbia University, New York, a series of three conferences will be staged on 'Sustainable Oceans: Reconciling Economic Use and Protection'; the first conference will explore 'The Use of the Oceans' Energy Resources, Risk Management, and the Need for Regulation'.

One of the key questions to be addressed by this conference is how the oceans can be researched and their resources utilized for economic growth while at the same time protecting them from the consequences of unfettered exploitation. Economic benefits need to be weighed up against the costs, which – especially in the case of deep-sea drilling – must realistically include an assessment of potential risks and the costs of establishing an efficient international system of crisis management. This applies not only to the economic exploitation of marine resources in coastal regions subject to national law, but particularly also to areas outside national jurisdiction, known as 'The Area'. In this 'Area' there are currently no internationally binding laws – despite the United Nations Convention on the Law of the Sea (UNCLOS) – which would allow sustainable economic activity to be ensured at the same time as preventing unrestricted and ecologically damaging, risky exploitation.

There is an urgent need for coastal states to face up to their responsibilities and to reach international agreement with a view to preserving the balance between business and ecology. A coordinated, comprehensive and transparent offshore management regime with effective enforcement mechanisms is required, especially when it comes to the use of energy and other mineral resources, in order to avoid the world's oceans increasingly becoming the scene of inter-governmental conflict. The conference will seek to identify solutions to best manage these challenges. It aims to increase awareness and facilitate a dialog with the global business community, with politicians worldwide, and with society as a whole.

One of the intentions of this conference series is to help establish the European Ocean Commission of the European Commission, to link it with the U.S. Ocean Commission, and to help initiate a joint EU – U.S. White Paper on the state of the oceans and coasts for politics and business, based on the model of the American 'Ocean Blueprint for the 21st Century'. To this end, methods are to be developed in order to evaluate the multitude of scientific findings in such a way as to allow them to be understood and utilized in politics and business, irrespective of lobby influences.

This first conference brings together experts and stakeholders from Europe and from the American continent, who will discuss these challenges in a comprehensive way and identify practical solutions to facilitate future sustainable development. We are honored that **S.A.S. Le Prince Albert II of Monaco** accepted our invitation to assume High Patronage over the conference series.

For their active support in the preparation of this conference, the Dräger Foundation wishes to thank its co-operation partners, the Kiel Cluster of Excellence "The Future Ocean", and The Earth Institute of Columbia University,

as well as its supporting partners:

The European Commission, Directorate-General for Maritime Affairs and Fisheries, Brussels; ALDEBARAN Marine Research & Broadcast, Hamburg; Alfred Wegener Institute for Polar and Marine Research, Bremerhaven; German Marine Research Consortium (KDM), Berlin; and World Ocean Council, Honolulu, Hawaii.

The Foundation is particularly grateful to the members of the Steering Committee, without whose invaluable efforts, ideas, and inputs this conference would not have been possible:

Jochen Deerberg, Owner & CEO, Deerberg Systems, Oldenburg

Dr. Jan-Stefan Fritz, German Marine Research Consortium (KDM), Brussels

Paul Holthus, Executive Director, World Ocean Council, Honolulu, Hawaii

Professor Karin Lochte, Director, Alfred Wegener Institute for Polar and Marine Research in the Helmholtz Association, Bremerhaven

Paul F. Nemitz, Head of Unit, Maritime Policy in the Atlantic, Arctic and Outermost Regions, European Commission, DG MARE, Brussels

**Dr. Tiago Pitta e Cunha**, Counselor for the Environment, Science and Maritime Affairs to the President of Portugal, Lisbon

**John B. Richardson**, Special Adviser on Maritime Affairs, FIPRA International, Brussels **Professor Peter Schlosser**, Associate Director and Director of Research, The Earth Institute, Columbia University, New York, NY

Frank Schweikert, CEO, ALDEBARAN Marine Research & Broadcast, and German Sea Foundation, Hamburg, who is also exhibiting films, video panoramas and full dome underwater impressions from his excursions

**Professor Martin Visbeck**, Deputy Director, IFM-GEOMAR, Leibniz Institute of Marine Sciences, and Member of the Cluster of Excellence "The Future Ocean", Kiel, who also made available the interactive game ecoOCEAN.

The Foundation also wishes to express its gratitude to

Deerberg-Systems, Oldenburg
Deutsche See GmbH, Bremerhaven
Volkswagen AG, Wolfsburg

for their generous support of the conference.

Responsible for the preparation and organization of the conference:

Petra Pissulla

Director, Dräger Foundation, Lübeck

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### Dräger-Stiftung Dräger Foundation

#### **DRÄGER FOUNDATION**

The Dräger Foundation, located in Lübeck, Germany, was established in 1974 by Heinrich Dräger, entrepreneur and economic and social scientist. The Foundation is a nonprofit institution committed to the promotion of science and research, especially in the fields of national and international economic and social order, international policy and law, and the environment. The Foundation regards its role as that of an initiator tackling topical and future-oriented subjects in its conferences and other events. The Malente Symposia are the Foundation's most comprehensive recurrent events. Young Leaders Study Groups are designed to foster leadership qualities in young professionals by stimulating dialogue across national boundaries and across professional sectors and to create a new network of future global leaders. In addition, the Foundation is involved in a range of activities serving the public good in Lübeck and the surrounding region, among others in the field of medicine, music, art and culture, as well as the protection of the landscape and the environment.



#### IFM-GEOMAR, THE CLUSTER OF EXCELLENCE "THE FUTURE OCEAN"

The Kiel Cluster of Excellence "The Future Ocean" pursues an approach to research that is unique in Germany: marine researchers, geologists, economists as well as medical scientists, mathematicians, legal and social scientists are contributing their expertise to investigate ocean and climate change. The Cluster of Excellence is therefore expressly including specialist fields that, to date, had little interaction with marine research. A total of over 250 scientists from six faculties at Kiel University, the Leibniz Institute of Marine Sciences (IFM-GEOMAR), the Kiel Institute for the World Economy (IfW) and the Muthesius Academy of Fine Arts and Design have joined forces. The Integrated School of Ocean Sciences (ISOS) has been created as a central element within the Cluster of Excellence in order to transfer this interdisciplinary approach to the education of young scientists. The Cluster of Excellence "The Future Ocean" has established marine sciences as a main field of research at Kiel University.

### THE EARTH INSTITUTE COLUMBIA UNIVERSITY

#### THE EARTH INSTITUTE, COLUMBIA UNIVERSITY

The Earth Institute's overarching goal is to help achieve sustainable development primarily by expanding the world's understanding of Earth as one integrated system. We work toward this goal through scientific research, education and the practical application of research for solving real-world challenges. With 850 scientists, postdoctoral fellows, staff and students working in and across more than 30 Columbia University research centers, the Earth Institute is helping to advance nine interconnected global issues: climate and society, water, energy, poverty, ecosystems, public health, food and nutrition, hazards and urbanization. With Columbia University as its foundation, the Earth Institute draws upon the scientific rigor, technological innovation and academic leadership for which the University is known.

The Earth Institute encompasses centers of excellence with an established reputation for groundbreaking research, including the renowned Lamont-Doherty Earth Observatory, home to some of the world's leading scientists pursuing the study of Earth and its systems. The Earth Institute is implementing solutions to global challenges; pioneering research; advising national governments, the United Nations and other international agencies; and educating the next generation of leaders in sustainable development. While Earth is indeed at a critical crossroads, our work reflects the fundamental belief that the world has within its possession the tools needed to effectively mitigate climate change, poverty and other critical issues.



#### ALDEBARAN MARINE RESEARCH & BROADCAST

ALDEBARAN is an organization and cross-media agency for communication of scientific, maritime and sustainable contents. ALDEBARAN acts as a mediator between scientific research, the media and the public. Modern multimedia production facilities are used to present complex scientific and technical issues in a comprehensible and attractive way.

ALDEBARAN specializes in the production of TV and radio broadcasts, including unique underwater footage. It also produces image and event films, as well as material for multimedia internet presentations, particularly for the purposes of visualizing and communicating environmental and marine topics. In addition, ALDEBARAN acts as an advisor for different companies and university institutions by presenting strategies and implementation tools for effective public relations.

ALDEBARAN is the only agency which is equipped with a floating laboratory and studio aboard the well-known research and media ship ALDEBARAN, which has been in operation since 1992. The "Research at Sea" youth competition and the Hamburg Climate Week are ALDEBARAN's most recent projects. The competition gives school teams the opportunity to research a topic of their choice during a science expedition aboard the research and media vessel ALDEBARAN. The Climate Week is an interactive climate theme park presenting the latest scientific findings from scientific institutions in the Metropolitan Region of Hamburg.



#### ALFRED WEGENER INSTITUTE FOR POLAR AND MARINE RESEARCH IN THE HELMHOLTZ ASSOCIATION

The Institute is a leading international center of excellence for climate research in polar regions and the oceans. Antarctica, the Arctic, and the oceans are key areas when it comes to understanding global climate change. With its innovative science, excellent research infrastructure and years of expertise, the Alfred Wegener Institute is amongst the world's few scientific institutions that conduct research on the icy atmospheric, terrestrial and aquatic realms at both poles.

The Alfred Wegener Institute for Polar and Marine Research in the Helmholtz Association conducts research in the Arctic and Antarctic, as well as in oceans of temperate and high latitudes. It coordinates polar research in Germany, carries out research on global environmental change and helps to unravel the complex natural relationships in the earth's ecosystem. Above all, understanding the driving forces behind and fluctuations in climate processes has increasingly become the major goal of the Institute's research.

The research work conducted by the Institute is characterized by its strong international network and the broad scientific basis on which it is founded. At the Alfred Wegener Institute, bio, geo and climate scientists work closely together. Fieldwork under extreme conditions is part of everyday life, as is the use of advanced laboratory equipment and high-performance mainframe computers. Because polar and marine research always constitutes a logistical challenge, the institute has an excellent infrastructure and also assists national and international scientific organizations. It supplies research vessels, such as the widely known "Polarstern", as well as annually and seasonally staffed research stations in both polar regions (for example, the Neumayer III Station in Antarctica). Aircraft, scientific observatories and measurement systems are also supplied.



#### EUROPEAN COMMISSION, DG MARITIME AFFAIRS AND FISHERIES

The Common Fisheries Policy has come a long way since its creation in 1982 – or indeed, since the first instruments of European fisheries policy were established in the early 1970s. What began as a set of tools to preserve traditional fishing patterns and defuse tension between a handful of nations is now a complex legal and scientific framework, which seeks to protect a natural resource whose finite, though renewable, nature can no longer be ignored.

Next to it, a new Maritime Policy seeks to respond in an integrated manner to all the challenges that European seas face today: from pollution to environment protection, from coastal development to job creation, from border control to surveillance and so on.



#### **GERMAN MARINE RESEARCH CONSORTIUM**

The German Marine Research Consortium is the national representative body of the German marine research institutions. Its members are part of a European and global network of such institutions. With approximately 2,200 scientists in the fields of basic and applied marine research, KDM provides comprehensive expertise to meet global challenges related to the sea and our environment.



#### **WORLD OCEAN COUNCIL**

The World Ocean Council (WOC) is the international, cross-sectoral business leadership alliance on "Corporate Ocean Responsibility". The WOC brings together a range of ocean industries, e.g. shipping, oil/gas, fisheries, aquaculture, renewable energy, tourism, insurance, etc. to collaborate in working towards a shared goal of healthy and productive seas and their sustainable use and stewardship by a responsible ocean business community.

Although many ocean industry operators are making progress on ocean sustainability, the best efforts by one company or an entire sector will not be able to address the cross-cutting issues, cumulative impacts and user conflicts resulting from the growing use of an interconnected marine environment.

The WOC is creating business value through the synergies and economies of scale of collaboration among ocean industries. Cross-sectoral industry working groups are addressing priority shared issues: e.g. marine spatial planning, invasive species, water pollution, ocean noise, marine debris, ocean data/science, the Arctic, the Convention on Biological Diversity. An increasing number of companies from a broad array of ocean industries are distinguishing themselves by becoming members of this unprecedented business leadership alliance for ocean sustainability.

### **Program**

### Wednesday, June 29, 2011

Check in SIDE Hotel

Drehbahn 49, 20354 Hamburg, Germany

Phone: +49 40 309 99 0

Incoming guest fax: +49 40 370 803 97

6:30 pm Bus transfer from the SIDE Hotel to the dinner location

7:00 pm Reception and Dinner at the Invitation of Deerberg-Systems,

Oldenburg, Germany

Elbpanorama

Atlantic House (20th floor), Bernhard-Nocht-Strasse 113, 20359 Hamburg

Dinner Speech Dr. Wendy Watson-Wright

Assistant Director General and Executive Secretary, Intergovernmental

Oceanographic Commission UNESCO, Paris, France

GLOBAL GOVERNANCE OF THE CHANGING OCEANS: RISK TOLERANCE AND

THE SCIENCE POLICY GAP

Bus transfer back to the SIDE Hotel

### Thursday, June 30, 2011

Conference Bucerius Law School

Venue Moot Court, Jungiusstrasse 6, 20355 Hamburg, Germany

9:00 am Welcome by the Organizers

**Professor Dieter Feddersen** 

Member of the Board, Dräger Foundation, Lübeck, Germany

**Professor Peter Schlosser** 

Associate Director and Director of Research, The Earth Institute, Columbia University,

New York, NY, USA

**Word of Greeting** 

Dr. Dorothee Stapelfeldt

Second Mayor and Senator for Science and Research of the Free and

Hanseatic City of Hamburg, Germany

#### 9:30 am Session 1, Setting the Scene

#### PRICING THE OCEANS

#### Topics to be discussed:

- The value of ocean ecosystems (barrier reefs, living resources, biodiversity)
- · The value of known and supposed mineral resources in the oceans
- · Economic gains and losses from exploitation
- Ecological and social costs of ecosystem damages (due to mining activities, oil spills, pollution)

#### Keynote Dr. Pushpam Kumar

Chief, Ecosystem Services Economics Unit, Division of Environmental Policy Implementation (DEPI), United Nations Environment Programme (UNEP), Nairobi, Kenya

#### Moderator Frank Schweikert

CEO, ALDEBARAN Marine Research & Broadcast, Hamburg, Germany

#### Commentators Professor Tony Haymet

Director, Scripps Institution of Oceanography, UC San Diego; Vice Chancellor for Marine Science and Dean, UC San Diego Graduate School of Marine Science, San Diego, CA, USA

#### Dr. Régis Kalaydjian

Project Manager, Marine Economics Unit, IFREMER – French Research Institute for the Exploitation of the Sea, Issy-les-Moulineaux Cedex, France

#### **Professor Martin Visbeck**

Deputy Director, IFM-GEOMAR; Head of Research Unit "Physical Oceanography", Leibniz Institute for Marine Sciences, Kiel, Germany

11:00 am Coffee Break

#### 11:30 am Session 2

#### MANAGING OFFSHORE ENERGY RESOURCES - RISKS AND OPPORTUNITIES

#### Topics to be discussed:

- What is sustainable use in terms of marine resources?
- Oil & gas exploration and production
- · Alternative energies from the ocean
- · Risk analysis and risk management; risks and opportunities of extreme technologies
- Maritime safety
- Crisis prevention mechanisms and crisis handling instruments in the U.S. and in Europe
- International cooperation
- · What can we learn from each other?

#### Moderator Brent Goff

Senior News Anchor, Deutsche Welle (DW), Berlin, Germany

#### Panelists Dr. Udo Barckhausen

Private Lecturer, BGR (Federal Institute for Geosciences and Natural Resources), Hanover, Germany

#### Dr. Quenton R. Dokken

President and CEO, Gulf of Mexico Foundation, Corpus Christi, TX, USA

#### Jan Pánek

Head of Unit "Coal & Oil", European Commission, Directorate-General for Energy, Brussels, Belgium

#### Dr. Michael Zettlitzer

General Manager, Quality, Health, Safety, and Environment, RWE Dea AG, Hamburg, Germany

1:00 pm Lunch

#### 2:00 pm Session 3

### MARINE GOVERNANCE OF ENERGY RESOURCES – LEGAL REGULATION & INSTITUTIONS

#### Topics to be discussed:

- Stewardship for oceans; who should be responsible for the oceans?
- Impact assessment and licensing of exploration and extraction
- Legal regulation, surveillance, criminalization of damages, penalization; are the present mechanisms and bodies sufficient?

#### Moderator The Honorable Dr. hon. mult. Hans Corell

Ret. Ambassador; Former Under-Secretary-General for Legal Affairs and the Legal Counsel of the United Nations, Stockholm, Sweden

#### Panelists The Honorable Professor Vladimir Golitsyn

Judge, International Tribunal for the Law of the Sea, Hamburg, Germany

#### Vladimír Jareš

Senior Legal Officer, Division of Ocean Affairs & the Law of the Sea (DOALOS), Office of Legal Affairs, United Nations; Deputy Secretary, Commission of the Limits of the Continental Shelf, New York, NY, USA

#### Professor Doris König

Public Law, European Union Law and International Law, Bucerius Law School; Chair, International Foundation for the Law of the Sea (IFLOS), Hamburg, Germany

3:30 pm Coffee Break

#### 4:00 pm Session 4

#### FINANCING THE PROTECTION OF THE OCEANS

#### Topics to be discussed:

- The effects of human activities on marine resources and collateral damage
- · What does it cost?
- Who pays the costs? Who bears the risks?
- Who benefits from exploiting the oceans' energy resources?
- · How should benefits be allocated?
- · Financing instruments

#### Moderator Sandra Cavalieri

Coordinator, Arctic and Transatlantic Programmes, Ecologic Institute, Berlin, Germany

#### Panelists Dr. Susan K. Avery

President and Director, Woods Hole Oceanographic Institution,

Woods Hole, MA, USA

#### Dr. Iris Menn

Oceans and Biodiversity Campaigner, Greenpeace e.V., Hamburg, Germany

#### **Professor Hans J. Peters**

Adjunct Faculty Member, School of Public Policy, George Mason University; Former Lead Arranger and Chief Advisor, The World Bank Group, Washington, D.C., USA

**6.30 pm Bus transfer** from the SIDE Hotel to the dinner location

7:00 pm Reception and Dinner

Hauptzollamt Hafen Hamburg (Former Chief Customs Office) Room: Zollhalle, Alter Wandrahm 19-20, 20457 Hamburg

Welcome Paul Nemitz

Head of Unit, Maritime Policy in the Atlantic, Arctic and Outermost Regions,

European Commission, DG MARE, Brussels, Belgium

Dinner Speech Professor Manuel Pinto de Abreu

Head, The Task Group for Maritime Affairs (EMAM), Paço de Arcos, Portugal

THE PORTUGUESE MARITIME STRATEGY: A NEW ERA OF DISCOVERIES

Frank Schweikert

Director, ALDEBARAN Marine Research & Broadcast, Hamburg, Germany

Introduction of the German Oceans Foundation

Guests 'Jugend musiziert' (Youth plays music) - The Auerbach Quartett

Bus transfer back to the SIDE Hotel

### Friday, July 1, 2011

Conference

**Bucerius Law School** 

Venue

Moot Court, Jungiusstrasse 6, 20355 Hamburg, Germany

#### 9:00 am Session 5

### ARCTIC CHALLENGES: INTERNATIONAL COOPERATION IN THE USE OF ARCTIC RESOURCES

#### Topics to be discussed:

- The future of the Arctic Council
- Exploitation and perspectives for oil, gas and shipping in times of rapid climate change
- · Mining the Arctic: costs and benefits for the indigenous peoples
- · The protection of the Arctic marine environment
- Why Europe needs the Arctic the development of an EU Arctic policy
- · The business perspective

#### Moderator

#### John B. Richardson

Special Adviser on Maritime Affairs, FIPRA International, Brussels, Belgium

#### **Panelists**

#### Dr. Terry Fenge

Consultant on Arctic, Environmental and Aboriginal Affairs; Principal, Terry Fenge Consulting Incorporated, Ottawa, Canada

#### **Professor Karin Lochte**

Chair, German Marine Research Consortium (KDM); Director, Alfred Wegener Institute for Polar and Marine Research in the Helmholtz Association, Bremerhaven, Germany

#### **Professor Peter Schlosser**

Associate Director and Director of Research, The Earth Institute, Columbia University, New York, NY, USA

#### Kirsten Ullbæk Selvig

Director General, Ministry of Fisheries and Coastal Affairs, Oslo, Norway

#### The Honorable Dr. Anton Vasiliev

Ambassador at Large, Ministry of Foreign Affairs of the Russian Federation, Moscow, Russia

#### Steffen Weber

Co-Founder and Secretary General, EU-ARCTIC-Forum; Chief Adviser, Arctic Report, European Parliament, Brussels, Belgium

11:00 am

Coffee Break

#### 11:30 am Session 6

#### TRANSATLANTIC COOPERATION IN OCEAN GOVERNANCE

#### Topics to be discussed:

- Who are the important players?
- · Bringing the stakeholders on board
- Which role does Europe want to play?
- The U.S. Joint Ocean Commission Initiative A model for a future European Ocean Commission?
- · Potentials for transatlantic cooperation

#### Moderator R. Andreas Kraemer

Director, Ecologic Institute, Berlin, Germany

#### Panelists Laura Cantral

Senior Mediator and Program Director, Joint Ocean Commission Initiative, Meridian Institute, Washington, D.C., USA

#### Professor Biliana Cicin-Sain

Director, Gerard J. Mangone Center for Marine Policy; Professor of Marine Policy, University of Delaware's College of Earth, Ocean, and Environment; President, Global Oceans Forum, Newark, DE, USA

#### **Paul Holthus**

Executive Director, World Ocean Council, Honolulu, HI, USA

#### Dr. Tiago Pitta e Cunha

Counselor for the Environment, Science and Maritime Affairs to the President of Portugal, Lisbon, Portugal

1:00 pm Closing Remarks

Moderator Professor Dieter Feddersen

Member of the Board, Dräger Foundation, Lübeck, Germany

#### Speakers Dr. Robert B. Gagosian

President and CEO, Consortium for Ocean Leadership, Washington, D.C., USA

THE NEW U.S. OCEAN POLICY AND THE GLOBAL OCEAN OBSERVING SYSTEM – A MODEL FOR TRANSATLANTIC COOPERATION

#### Paul F. Nemitz

Head of Unit, Maritime Policy in the Atlantic, Arctic and Outermost Regions, DG MARE, European Commission, Brussels, Belgium

EUROPE AS THE DRIVING FORCE BEHIND SUSTAINABLE AND SMART USE OF OCEAN RESOURCES

1:45 pm Lunch and End of the Conference





## DR. SUSAN K. AVERY President and Director, Woods Hole Oceanographic Institution, Woods Hole, MA, USA

Dr. Susan K. Avery took office as the ninth President and Director of the Woods Hole Oceanographic Institution in February 2008. With a background in atmospheric research, Dr. Avery has used her position to underscore the importance of ocean-atmosphere-terrestrial interactions in understanding Earth as a system. She came to Woods Hole from the University of Colorado at Boulder (UCB), where she was a member of the faculty, and most recently served in interim positions as Vice Chancellor for Research and Dean of the Graduate School, as well as Provost and Executive Vice Chancellor for Academic Affairs.

Dr. Avery also served as director of the Cooperative Institute for Research in Environmental Sciences (CIRES) at UCB from 1994 to 2004, where she facilitated interdisciplinary research spanning the geosciences and social and biological sciences. Her research interests include atmospheric circulation and precipitation, the development of new radar techniques and instruments for observing the atmosphere, and the role of climate science in decision support.

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## DR. UDO BARCKHAUSEN Private Lecturer, BGR (Federal Institute for Geosciences and Natural Resources), Hanover, Germany

Geophysicist Priv.-Doz. Dr. Udo Barckhausen was born at the small town of Celle in Lower Saxony, Germany. He studied physics and geophysics at the Universities of Göttingen and Kiel. In 1993 he received the diploma, obtained his PhD in 1996, and his habilitation in 2009, all in geophysics. He was a Postdoc at Göttingen University working on borehole measurements before he joined the Federal Institute for Geosciences and Natural Resources (BGR) in Hanover, Germany, in 1998. In 1999/2000 he held a Research Fellowship at the Scripps Institution of Oceanography, San Diego, USA, where he worked on plate tectonics at convergent margins. In 2003, Barckhausen was delegated to the Federal Ministry of Economics and Technology in Berlin for one year. In 2010/11 he spent six months as a visiting scientist at the National Oceanic and Atmospheric Administration (NOAA) in Boulder, USA. From 2001 on he has been giving lectures at the Leibniz University in Hanover and later also at Göttingen University. Since 2005 he has been a member of the board of the German Geophysical Society. His focal areas of activity and research are methods of Applied Geophysics and seagoing geophysical expeditions.

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## LAURA CANTRAL Senior Mediator and Program Director, Joint Ocean Commission Initiative; Meridian Institute, Washington, D.C., USA

Laura Cantral is a Senior Mediator and Program Director in the Meridian Institute's Washington, D.C., office. Ms. Cantral devotes much of her time as Program Director of the Joint Ocean Commission Initiative, a collaborative effort of the U.S. Commission on Ocean Policy and the Pew Oceans Commission.

The purpose of the Joint Initiative is to catalyze actions at the local, state, and national levels that lead to meaningful ocean policy reform. Ms. Cantral also leads Meridian Institute's involvement in other ocean policy related projects, such as the Cooperation Across the Atlantic for Marine Governance Integration project (CALAMAR). Meridian has served as a lead partner along with Ecologic Institute on the CALAMAR project for the past 18 months. The project culminated in a final conference in Lisbon, Portugal in April 2011.

Prior to joining Meridian, Ms. Cantral was the Associate Director for Governance for the U.S. Commission on Ocean Policy, a presidential commission appointed in 2001 to develop recommendations to the President and Congress on improving the use and management of ocean resources. From 1998 to 2000, Ms. Cantral also served as staff for the Florida Governor's Ocean Committee, which was created by the late Governor Lawton Chiles to make recommendations for improving the management of Florida's ocean and coastal resources. With a background in marine law, Ms. Cantral has extensive experience working on ocean and coastal policy issues at the state, regional, and national levels.

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## SANDRA CAVALIERI Coordinator, Arctic and Transatlantic Programmes, Ecologic Institute, Berlin, Germany

Sandra Cavalieri is a Fellow and Coordinator of the Arctic and Transatlantic Programmes at Ecologic Institute in Berlin, Germany. Her work focuses on developing policy and adaptation strategies in the Arctic environment through stakeholder-based dialogue. Key focal areas include: environmental governance, traditional knowledge and indigenous peoples, fisheries management, maritime shipping, and offshore hydrocarbon exploration in the Arctic region. She is also leading efforts to develop policy options for improved ocean governance and marine conservation.

Prior to joining Ecologic Institute, Sandra Cavalieri worked at The Nature Conservancy where she collaborated with state and federal agencies to secure public funding for biodiversity and landscape conservation. She holds Master's degrees in both Public Administration and Natural Resources Policy from North Carolina State University, and a Bachelor's degree in Religion and Environmental Science from Barnard College, Columbia University.

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# PROFESSOR DR. BILIANA CICIN-SAIN Director, Gerard J. Mangone Center for Marine Policy; Professor of Marine Policy, University of Delaware's College of Earth, Ocean, and Environment; President, Global Oceans Forum, Newark, DE, USA

Dr. Biliana Cicin-Sain (PhD in political science, UCLA, postdoctoral training, Harvard University) is Director of the Gerard J. Mangone Center for Marine Policy and Professor of Marine Policy at the University of Delaware's College of Earth, Ocean, and Environment. She is a leader in the field of integrated coastal and ocean governance and has forged international collaboration among all sectors of the international oceans community to advance the global oceans agenda.

Dr. Cicin-Sain is the President of the Global Oceans Forum, initially mobilized in 2001 to place issues related to oceans, coasts, and island states on the agenda of the 2002 World Summit on Sustainable Development and to agree on a detailed set of global ocean targets and timelines. Since 2001, the Global Oceans Forum has brought together ocean leaders from governments, nongovernmental organizations, UN agencies, the private sector, and scientific associations from 112 countries to promote the implementation of international ocean agreements, analyze emerging policy issues, and advance international consensus on unresolved ocean issues. Dr. Cicin-Sain's international ocean work has been recognized through a number of awards, including: 2010 Laureate for the Elizabeth Haub Award for Environmental Diplomacy; 2010 award of an honorary doctorate in maritime law by Korea Maritime University; 2007 recipient of the Coastal Zone Foundation Award (US); 2007 recipient of the Elisabeth Mann Borgese Meerespreis (Prize of the Sea, given by the Ministry of Science, Economics and Transport of the Land Schleswig-Holstein in Germany); and 2002 co-recipient of the Ocean and Coastal Stewardship (given by the California and the World Ocean Conference).

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## THE HONARABLE DR. HON. MULT. HANS CORELL Ret. Ambassador; Former Under-Secretary-General for Legal Affairs and the Legal Counsel of the United Nations, Stockholm, Sweden

Hans Corell served as Under-Secretary-General for Legal Affairs and the Legal Counsel of the United Nations from 1994 to 2004. In this capacity, he was head of the Office of Legal Affairs in the United Nations Secretariat. During this period he had oversight over the Division of Ocean Affairs and the Law of the Sea and was involved in the establishment of the three institutions created by the UN Convention on the Law of the Sea.

Before joining the UN, he was Ambassador and Under-Secretary for Legal and Consular Affairs in the Swedish Ministry of Foreign Affairs from 1984 to 1994. During this period he was head of the Swedish delegation in maritime delimitation negotiations with three neighbouring states.

He received his Law Degree from the University of Uppsala in 1962. Corell has been a member of Sweden's delegation to the United Nations General Assembly from 1985 to 1993 and has had several assignments related to the Council of Europe, OECD and the CSCE (now OSCE). Since his retirement from public service in 2004, Corell is engaged in many different activities in the legal field, inter alia as legal adviser, lecturer, and member of different boards. Among other things, he is involved in the work of the International Bar Association and the Hague Institute for The Internalisation of Law. Since 2006 he is Chairman of the Board of Trustees of the Raoul Wallenberg Institute for Human Rights and Humanitarian Law at Lund University. He holds honorary Doctor of Law degrees from Stockholm University (1997) and Lund University (2007).

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## DR. QUENTON R. DOKKEN President and CEO, Gulf of Mexico Foundation, Corpus Christi, TX, USA

Dr. Quenton R. Dokken is President and CEO of the Gulf of Mexico Foundation. He has been with the Foundation since its inception in 1991. Until moving from part-time to full-time with the GMF in 2006, Dokken was Associate Director of the Texas A&M University-Corpus Christi Center for Coastal Studies. While working as an adjunct professor at A&M, Dokken was also the Director of the National Oceanic and Atmospheric Administration Gulf of Mexico Regional Marine Research Program.

As Executive Director of the Texas State Aquarium in 1985, Dr. Dokken directed the efforts to establish the newly formed nonprofit facility in Corpus Christi, Texas. With a full-time staff of 78 and more than 1,000 volunteers, Dr. Dokken directed the aquarium through its first year, when the \$32 million facility opened its doors to over 700,000 visitors who came to view and marvel at the living wonders of the Gulf of Mexico.

As a marine scientist, Dr. Dokken has an extensive publication record relating to the study of the ecosystems and fauna of the Gulf of Mexico. As Director of the Gulf of Mexico Regional Marine Research Program, he has led his professional peers in developing priorities for marine research in the Gulf of Mexico, a daunting task in the face of declining research dollars. He founded and coordinated the Flower Garden Ocean Research Program which integrated the efforts of institutional science and the offshore oil and gas industry to expand opportunities for marine research in the most cost-effective manner.

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## PROFESSOR DR. DIETER FEDDERSEN Member of the Board, Dräger Foundation, Lübeck, Germany

Professor Dieter Feddersen was born in Kiel in 1935. He studied law at the University of Kiel and Berlin and obtained his PhD from Kiel University in 1964. Thesis: The role of parliaments in the German Democratic Republic, and was admitted to the bar in the same year.

He was partner of the international law firm White & Case LLP, Frankfurt/Main (1974 - 2003), and has been Of Counsel at Feddersen Heuer & Partner, Frankfurt/Main since 2003. Dieter Feddersen specializes in Corporate Law, Tax Law, M&A and other transactions.

He has been member of various national and international arbitration panels.

He was Lecturer on Tax Law in Heidelberg between 1986 and 2005 and became Honorary Professor at the University of Heidelberg in 1991.

He executed and is executing various supervisory/advisory board activities, inter alia: Chairman, Supervisory Board of Drägerwerk AG & Co. KGaA (former Drägerwerk AG), Lübeck (08/1979 until 05/2008); Chairman, Asklepios Kliniken Verwaltungsgesellschaft mbH, Königstein (since 2005); Chairman, Asklepios Kliniken Hamburg GmbH (since 2005).

Among his various board activities in non-profit organisations are the board memberships of the Dräger Foundation, Lübeck of the American Institute for Contemporary German Studies, Washington D.C., and of the Supporter Group of the Friends of the Komische Oper Berlin.

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### DR. TERRY FENGE Consultant on Arctic, Environmental and Aboriginal Affairs; Principal, Terry Fenge Consulting Incorporated, Ottawa, Ontario, Canada

Based in Ottawa, Dr. Terry Fenge is the Principal of Terry Fenge Consulting Incorporated specializing in aboriginal rights and interests, environmental affairs, and national and international public policy in the circumpolar Arctic and beyond. Born and raised in the United Kingdom, Dr. Fenge earned a Bachelor's degree in physical geography at the University of Wales, a Master's degree in applied geography at the University of Victoria and a doctorate in regional planning and resource development at the University of Waterloo. Following two years teaching at Brock University, Dr. Fenge took the position of Director of Research and later Executive Director at the Canadian Arctic Resources Committee (CARC).

From 1985 to 1993 he was Director of Research and Senior Negotiator for the Tungavik Federation of Nunavut (TFN), the Inuit organization that negotiated the 1993 Nunavut Land Claims Agreement. From 1996 to date he has worked on contaminants, climate change, biodiversity conservation and intergovernmental issues.

He was Strategic Counsel to the Chair of the Inuit Circumpolar Conference (ICC) from 1996 to 2006 and is currently the Senior Policy Advisor to the Arctic Athabaskan Council. Since 2000 he has also worked with the Nunavut Tunngavik Incorporated (NTI) to implement the Nunavut Land Claims Agreement. In addition he has worked with the Russian Association of Indigenous Peoples of the North (RAIPON) the Inuit Heritage Trust (IHT), the Circumpolar Conservation Union (CCU), and Oceans North. Dr. Fenge is the author, co-author or editor of six books and monographs, and more than seventy published papers. His most recent book: Northern Lights Against POPs: Combatting Toxic Threats in the Arctic, co-edited with David Downie of Columbia University, was published in 2003 by McGill-Queen's University Press.

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## DR. ROBERT B. GAGOSIAN President and CEO, Consortium for Ocean Leadership, Washington, D.C., USA

In November of 2007, Robert B. Gagosian was appointed the first President and CEO of the Consortium for Ocean Leadership. As President, Gagosian oversees the management of major community wide oceanography programs and infrastructure, accounting for roughly \$250 million per year. He is also responsible for managing the coordination and facilitation of many federal research agencies supporting ocean research and education, and leading the ocean community's advocacy efforts, articulating to policy makers the importance of ocean research and education to the future of the nation.

Prior to his work at Ocean Leadership, Gagosian served as Director of the Woods Hole Oceanographic Institution (WHOI) for 13 years. He joined WHOI as a marine geochemist in 1972 and his following 34-year tenure included five years as Chairman of the Chemistry Department, six years as WHOI Director of Research and two as Senior Associate Director. Gagosian has been appointed and elected to various positions of distinction including: Faculty Fellow of the World Economic Forum in Davos, Switzerland and Science Advisory Panel of the U.S. Commission on Ocean Policy. Selected honors include Monmouth University, Champion of the Ocean Award, (2006) and Honorary Doctor of Science Degrees from Long Island University and Northeastern University.

A Massachusetts native, Gagosian attended Massachusetts Institute of Technology, where he completed a bachelor's degree in chemistry in 1966 and was named outstanding undergraduate in the Chemistry Department. He then received his PhD at Columbia University in organic chemistry in 1970. He is the author or co-author of 85 scientific publications in referred journals and a number of op-ed pieces and editorials in several publications including The Washington Post, The New York Times, and Science. His views on the importance of ocean sciences research to the future of our society have been expressed in over 100 personal presentations worldwide.

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## BRENT GOFF Senior News Anchor, Deutsche Welle (DW), Berlin, Germany

Brent Goff is a senior news anchor for Deutsche Welle (DW) TV's English program in Berlin. He anchors the news program, "Journal." Before his move to the main anchor desk, Brent presented the business news and hosted the weekly business magazine show, "Made in Germany." Mr. Goff can also be heard on numerous German radio stations offering analysis of American media, business, and foreign policy. He is also an adjunct professor in journalism at Touro College in Berlin and at the Hamburg Media School. Prior to joining DW, Mr. Goff worked as a producer for CNN in Berlin and Washington. He has also reported for Time magazine.

Mr. Goff was nominated as a "Young Global Leader" at the World Economic Forum in 2008 for his excellent reporting and anchoring on the financial crisis.

In 1995, he was awarded the Edward R. Murrow Prize for excellence in investigative journalism. Mr. Goff came to Germany in 1995 as a Fulbright Scholar, where he was a guest researcher and a lecturer at the Institute for Journalism at Hamburg University. He was a Robert Bosch Fellow in Berlin in 1999-2000.

Mr. Goff holds an MA in German and European Studies from Georgetown University and BAs in German, Political Science and Journalism from the University of Missouri.

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## THE HONORABLE PROFESSOR DR. VLADIMIR GOLITSYN Judge, International Tribunal for the Law of the Sea, Hamburg, Germany

Judge Golitsyn, a national of the Russian Federation, has been active in the field of international law and, in particular, the law of the sea, for almost four decades.

At government level he headed the Division of Public International Law at the Ministry of Foreign Affairs of the former USSR and, as head or member of delegations, conducted various negotiations on fishery, navigation and maritime boundary matters, as well as on the Arctic and Antarctica. In July 2007, he acted as chief legal counsel of the Russian Federation's delegation/team in the proceedings of two prompt release cases brought by Japan against the Russian Federation before the International Tribunal for the Law of the Sea (the "Hoshinmaru" and "Tomimaru" cases).

At the United Nations, he worked for 25 years at the Office of the Legal Counsel and as director of the Division for Ocean Affairs and the Law of the Sea. During this time he has been involved in a wide range of legal issues. In academia, he has been vice president of the Russian Association of International Maritime Law and professor of international law at the Moscow State Institute of International Relations and the Diplomatic Academy, where he completed his PhD on the legal regime of Antarctica. He has published extensively on various issues relating to the law of the sea.

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### PROFESSOR DR. TONY HAYMET Director, Scripps Institution of Oceanography, UC San Diego; Vice Chancellor for Marine Sciences and Dean, UC San Diego Graduate School of Marine Sciences,

San Diego, CA, USA

Dr. A.D.J. "Tony" Haymet is the tenth director of Scripps Institution of Oceanography at the University of California, San Diego. Haymet also serves as UC San Diego's vice chancellor for Marine Sciences and dean of the Graduate School of Marine Sciences, and is a professor of oceanography at Scripps and chemistry at UC San Diego. Tony is a founder and currently vice-chair of CleanTECH San Diego, a business development organization dedicated to the practical response to climate change issues, and in particular to meet the goals of Governor Schwarzenegger's landmark greenhouse gas legislation AB-32. He has also launched SPHEAR, Scripps Partners for Hazard and Environmental Applied Research, an industry-based partnership for funding higher risk research projects in response to climate change. He is a trustee of the California Ocean Science Trust, a member of the U.S. National Science Foundation's Advisory Committee on Geoscience, the U.S. National Institute of Standards and Technology Visiting Committee on Advanced Technology, the National Oceans Advisory Group, and the executive committee of the Partnership for Observation of the Global Oceans (POGO). He was elected by his peers to the Board of the (U.S.) Consortium for Ocean Leadership (COL). He also is a panel member for the ICSU/WMO/IOC review of the World Climate Research Programme (WCRP). In Australia he served as Chief of Marine and Atmospheric Research, then Director of Science and Policy, CSIRO. He was also chair of OPSAG, the Federal Government's Ocean Policy Science Advisory Group, and a member of NOAG, the National Ocean Advisory Group. Tony Haymet is a highly distinguished chemist whose research has focused on freezing, phase transitions, nucleation, and Antarctic fish antifreeze proteins. He holds a PhD from the University of Chicago and a Doctor and Bachelor of Science (Honours) from the University of Sydney. He is the author of more than 165 peer-reviewed publications. More recently he has published Op-Ed pieces in major Australian and U.S. newspapers.

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### PAUL HOLTHUS Executive Director, World Ocean Council, Honolulu, HI, USA

Paul Holthus is the founding Executive Director of the World Ocean Council – the international business leadership alliance on "Corporate Ocean Responsibility". The WOC brings together oil/gas, shipping, fisheries, aquaculture, offshore renewables, and other ocean industries to catalyze business leadership and collaboration in addressing shared marine sustainability issues. From 1985 to 1998 Paul held senior positions with the UN Environment Program and international environment organizations, including serving as Deputy Director for the Global Marine Program of IUCN (The World Conservation Union).

Since 1998, Paul Holthus has been working primarily with the private sector on marine sustainable development solutions. He has worked in over 30 countries around the world with companies, communities, industry associations, UN agencies, international NGOs, and foundations. Paul Holthus is a graduate of the University of California and the University of Hawaii, with advanced degrees in marine resource management and international business.

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### VLADIMÍR JAREŠ Senior Legal Officer, Division of Ocean Affairs & the Law of the Sea (DOALOS),

Office of Legal Affairs, United Nations; Deputy Secretary, Commission of the Limits of the Continental Shelf, New York, NY, USA

Mr. Vladimír Jareš is Senior Legal Officer with the Division for Ocean Affairs and the Law of the Sea, Office of Legal Affairs of the United Nations Secretariat. He has been a staff member of the United Nations Secretariat since December 1992.

He deals with a number of issues concerning the law of the sea, in particular maritime spaces, maritime boundary delimitation as well as certain depositary functions of the Secretary-General under the United Nations Convention on the Law of the Sea. He has been a member of the team which provides services to the Commission on the Limits of the Continental Shelf since the establishment of the Commission. Currently he is the Deputy-Secretary of that body. He is also involved in capacity-building activities of the Division. In his first years at the United Nations, he dealt with fisheries issues in the context of the United Nations Conference on Straddling Fish Stocks and Highly Migratory Fish Stocks. He has been involved in the preparation of a number of publications issued by the Division, such as the United Nations Convention on the Law of the Sea with Index (1997 edition), International fisheries instruments with Index, Handbook on the Delimitation of Maritime boundaries, and the Law of the Sea Bulletin.

Prior to his career as an international civil servant, he was Second Secretary at the Permanent Mission of Czechoslovakia to the United Nations in New York. He also served for two years as Special Assistant to the Deputy Foreign Minister of Czechoslovakia, after having started his career as a Legal Officer in the International Law Department of the Federal Ministry of Foreign Affairs of Czechoslovakia.

He has a master's degree in international law from the Moscow State Institute of International Relations (MGIMO-University), 1985, and a master's degree in law from Charles University in Prague (Czechoslovakia), 1986.

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## DR. RÉGIS KALAYDJIAN Project Manager, Marine Economics Unit, IFREMER – French Research Institute for the Exploitation of the Sea, Issy-les-Moulineaux Cedex, France

Since 1993: Research Economist, Marine Economics Unit of IFREMER; Head of the Unit from 1993 to 2006. Main activities: responsible for the development of Ifremer's database on maritime activities in France; led a project commissioned by Eurostat (2008-2009), on the development of an EU-maritime economic database; since the 1990s, participated in studies on maritime activities in France and in Europe, and on coastal zone uses for supporting coastal zone management policies; scientific editor of the "French Marine Economic Data" biennial report published by Ifremer since 1997. From 1990 to 1993, worked as consultant at the European Commission, Directorate-General for Energy: expertise on the electricity market in Europe. 1989: Research Associate at the International Institute for Applied Systems Analysis, Laxenburg, Austria: post-doctoral study on electricity trade in Europe. From 1985 to 1988: participated in studies at the High School for Social Science Studies, Paris, on energy policy in France; rapporteur at the French Association of Energy Economists.

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# PROFESSOR DR. DORIS KÖNIG Professor of Public Law, European Union Law and International Law, Bucerius Law School; Chair, International Foundation for the Law of the Sea (IFLOS), Hamburg, Germany

Doris König has been Professor of Public Law, European Union Law and International Law at Bucerius Law School in Hamburg since October 2000. She studied law at Kiel University from 1975 to 1980. In 1981/82 she gained the post-graduate degree of Master of Comparative Law (M.C.L.) at the University of Miami School of Law. In 1989 she completed her doctoral thesis on port state jurisdiction at the Walther Schücking Institute of International Law at Kiel University. From 1989 to 1992 she served as a judge at the Hamburg State Court. In 1992 she returned to Kiel University as a senior research assistant. She completed her post-doctoral thesis on the transfer of sovereign rights within the framework of the European integration process in 1998, and received the Venia legendi in Public Law, International Law and European Community Law. She is a member of the Advisory Committee of International Public Law at the German Foreign Office (since 2004) and German member of the PCA (since 2008).

Her main research interests are in the field of the international law of the sea, international environmental law, international human rights law and European Union law. In 2004, she took over the Chair of the newly founded International Foundation for the Law of the Sea (IFLOS), Hamburg. In this capacity, she organized a number of events and symposia in the field of the international law of the sea at the seat of ITLOS. Since summer 2007, IFLOS annually has been organizing a Summer Academy at ITLOS, focused on selected topics in the law of the sea and maritime law.

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### R. ANDREAS KRAEMER Director, Ecologic Institute, Berlin, Germany

Active in sustainable development, environment policy, climate and energy policies for over 20 years, R. Andreas Kraemer has been Director of Ecologic Institute since its foundation in 1995. In April 2008, he became chairman of the Ecologic Institute in Washington, D.C. – Ecologic's newly incorporated presence.

Since 1993 he has been also a Visiting Assistant Professor at Duke University, lecturing on European integration and environmental policy in the Duke-in-Berlin-Program. Andreas is Co-Chairman of the advisory board of OekoWorld, setting criteria for global investment for a group of ethical and "green" investment funds or mutual trusts, and of Oekom Research, a rating agency specialising in corporate and governmental or "sovereign" debtors' ethics and sustainability. He also serves on the Boards of the Bellagio Forum for Sustainable Development and the French-Alsatian NGO Solidarité Eau Europe, and is a coordinator of the British German Environment Forum.

With a strong background in institutional analysis and capacity building in sustainable development, environmental policy and resource management, he now focuses on integrating environmental concerns into other policies, notably EU General Affairs and external relations, including trade, development, foreign affairs and security policy. He is particularly engaged in strengthening transatlantic relations and cooperation on environment, climate and energy security.

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# DR. PUSHPAM KUMAR Chief, Ecosystem Services Economics Unit, Division of Environmental Policy Implementation (DEPI), United Nations Environment Programme (UNEP), Nairobi, Kenya

Dr. Pushpam Kumar is Chief of the Ecosystem Services Economics Unit at UNEP's Division of Environmental Policy Implementation, where he applies the tools and techniques of ecological economics to mainstream ecosystem services into development policy. He has been engaged in international scientific efforts to assess biodiversity, ecosystems and climate change.

Dr. Kumar was Co-Coordinating Lead Author and Co-Coordinator of the Responses Working Group for Millennium Ecosystem Assessment, and Lead Author for the Fourth Assessment of the IPCC (Mitigation). Besides being a member of the study leader team of the Economics of Ecosystems and Biodiversity (TEEB), he was also the Scientific Co-Coordinator of the Conceptual Framework for the TEEB. He was head of the Technical Support Unit of the Responses Working Group, Millennium Ecosystem Assessment (MA), and was instrumental in designing, leading and coordinating inputs from 400 natural and social scientists from different disciplines and cultural backgrounds all over the world. He is a Member of the Expert Panel for the UK National Ecosystem Assessment (2009-2011) and an elected Member of the Board of the European Society for Ecological Economics (ESEE).

Dr. Kumar has taught and conducted research in ecological economics at the universities of Liverpool, Cambridge and Delhi for the last two decades. His research has focused on designing market-based response options for management of biodiversity, economics of ecosystem services, ecosystem accounting, and linkages of poverty and environment. Dr. Kumar has numerous publications in peer reviewed journals of international repute.

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#### PROFESSOR DR. KARIN LOCHTE

Chair, German Marine Research Consortium (KDM); Director, Alfred Wegener Institute for Polar and Marine Research in the Helmholtz Association, Bremerhaven, Germany

Professor Dr. Karin Lochte (\*1952) has been director of the Alfred Wegener Institute for Polar and Marine Research in the Helmholtz Association situated in Bremerhaven, Germany, since November 2007. Using her position to promote the large scientific tasks related to Polar Sciences, she has been acting as delegate of the "Scientific Committee on Antarctic Research" since 2008. Karin Lochte is and was member of numerous national and international committees. Since 2004 she has been member of the German Wissenschaftsrat and held the chair of the scientific commission from 2006 to 2008. Since 2004 she has been chairing the "Senatskommission für Ozeanographie".

Prior to her directorship at the Alfred Wegener Institute, between 1990 and 1994, Karin Lochte already has been involved in scientific research at this institution on the bacterial colonisation and activity of bacteria in sea ice. From 1995 to 2007, she had been lecturing on Biological Oceanography, at the universities of Rostock and Kiel. From 2000 to 2007 Karin Lochte was head of the research unit Biological Oceanography at the Leibniz Institute for Marine Sciences, in whose council she is actual member. From 1995 to 2000, Karin Lochte was head of the similar research unit at the Leibniz-Institut für Ostseeforschung in Warnemünde.

In 1994, Karin Lochte received her Venia legendi at the University of Bremen. Prior to her professorship, she worked on the topic "Deep Sea Microbiology" from 1985 to 1990 at the Institute for Marine Sciences, University of Kiel. Karin Lochte received her PhD in Marine Biology at the University College of North Wales, UK, in 1984.

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# Oceans and Biodiversity Campaigner, Greenpeace e.V., Hamburg, Germany

Born in Marburg/Lahn in 1971, Dr. Iris Menn began studying biology at the universities of Marburg and Braunschweig on graduating from high school in 1990. She specialized in ecology and marine biology and completed her studies in 1997 with a diploma thesis which she wrote at the Wadden Sea Station Sylt, which is part of the Alfred Wegener Institute for Polar and Marine Research.

While still a student she undertook a number of internships to extend her work experience. She continued her work at the Wadden Sea Station Sylt by writing a PhD thesis on the ecology of sandy beaches ("Ecological comparison of two sandy shores with different wave energy and morphodynamics in the North Sea"). After working for a time as a postdoctoral researcher, she joined the environmental organization Greenpeace, where she has worked as an international oceans campaigner since 2002.

The main focus of her work is on fisheries and marine reserves. She is involved in negotiations of national and international political agreements, as well as in industry and public work.

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# PAUL F. NEMITZ Head of Unit; Maritime Policy in the Atlantic, Arctic and Outermost Regions, European Commission, DG MARE, Brussels, Belgium

Paul Nemitz is the Head of Unit for Maritime Policy in the Atlantic, Arctic and Outermost Regions in the European Commission, Directorate-General for Maritime Affairs and Fisheries (DG MARE).

Beyond the geographic function, he also holds responsibility for policies related to marine knowledge development, climate change impacts on coasts, financing of Maritime Policy projects, the European Atlas of the Seas, and the Maritime Policy Internet Forum.

His previous posts in DG MARE were Head of Maritime Policy Development and Head of Legal Affairs. Having joined the European Commission in 1992, Mr. Nemitz held positions relating to Trade Policy, Transport Policy, and he was a Member of the Legal Service of the European Commission and the Cabinet of Commissioner Poul Nielson (Development aid). Mr. Nemitz has been admitted to the bar and holds law degrees from the University of Hamburg and the George Washington University in Washington, D.C. He was born in Bonn in 1962.

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# JAN PÁNEK Head of Unit "Coal & Oil", European Commission, Directorate-General for Energy, Brussels, Belgium

Jan Pánek is Head of Unit "Coal and Oil" in the Directorate-General for Energy of the European Commission in Brussels. He joined the European Commission in 2005 following an earlier career in the diplomatic service of the Czech Ministry of Foreign Affairs during which he occupied positions in the Ministry's headquarters as well as in Czech diplomatic missions in Tokyo and Brussels.

He also spent several years in the 1990s with the Boston Consulting Group in its London and Central European offices. He holds a B.Sc. in Applied Geophysics from Charles University in Prague and an M.A. in International Economics/A.F.P. from The Johns Hopkins University – S.A.I.S. in Washington, D.C. He is also a Chartered Financial Analyst (CFA) charter holder.

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# PROFESSOR HANS J. PETERS Adjunct Faculty Member, School of Public Policy, George Mason University; Former Lead Arranger and Chief Advisor, The World Bank Group, Washington, D.C., USA

Hans J. Peters has worked at every level of international project finance for a diverse portfolio of customers, including ocean carriers, shipyards, multimodal transport operators, terminal operators and port authorities. He continues to advise several country governments, specialist financing institutions, professional associations, and has a proven track record of conducting due diligence for project developers and financiers. He also serves as board member at prominent enterprises active in the maritime sector. Mr. Peters has been lead arranger and chief advisor for some US\$ 8.5 billion maritime industry related investments in more than 40 countries in Asia, the Former Soviet Union, and throughout Latin America. His professional career includes 26 years as lead arranger and chief adviser in the World Bank group, and subsequently manager of project development branches within key international industry groupings. In this context he also served as director of a multilaterally financed environmental protection program for the Mediterranean and was prominently involved in similar initiatives in Asia and Latin America.

Mr. Peters is adjunct faculty member at the School of Public Policy, George Mason University, where he teaches graduate courses in financial management and maritime affairs. He is a widely recognized author and lecturer on project finance structuring and analysis of developments in the global maritime industry. His academic credentials com-prise degrees in civil engineering (Kiel, Darmstadt, Graz), economics (UCBerkeley) and finance (UVADarden). Mr. Peters is a fellow of several professional societies in maritime economics, marine engineering, and naval architecture.

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# PROFESSOR DR. MANUEL PINTO DE ABREU Head, The Task Group for Maritime Affairs (EMAM), Paço de Arcos, Portugal

Manuel Pinto de Abreu holds a master and PhD degree in "Physical Oceanography", Monterey, California, EUA (1991). From 1992 to 1997, he was the Head of the Cartography and Hydrography Division of the Hydrographic Office. In 2003 he was the President of the Advisory Council of the Interministerial Commission for the Delimitation of the Continental Shelf. Until 2010 he was the Head of the Task Group for the Extension of the Continental Shelf (EMEPC).

Professor Pinto de Abreu is a Navy Officer (reserve) who served as a hydrographer and on board of several ships.

Presently Manuel Pinto de Abreu is the Head of the Task Group for Maritime Affairs (EMAM). He is also full Professor of the Universidade Lusófona de Humanidades e Tecnologias (Lusophone University of Humanities and Technologies) and partner of PLogP – Consultancy and Services in Information Technologies and Systems, Ltd. Professor Pinto de Abreu is the Portuguese High Level Focal Point on Integrated Maritime Policy of the EU and the Portuguese National Coordinator of the EU Pilot Project for the Integration of Maritime Surveillance on the Mediterranean Area and its Atlantic Approaches – BluemassMed.

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# DR. TIAGO PITTA E CUNHA Counselor for the Environment, Science and Maritime Affairs to the President of Portugal, Lisbon, Portugal

Dr. Tiago Pitta e Cunha was born in Lisbon in March 1967.

He received his degree in Law by the Universidade Católica Portuguesa (Catholic University of Portugal) in 1990, and his LL.M. (Legis Magister) in European and International Law by the London School of Economics and Political Science in 1994.

He was Advisor to the President of the United Nations General Assembly from 1995 to 1996, was a delegate to the 6th Committee of the UN General Assembly in 1998 and a Counsellor in the Permanent Mission of Portugal to the United Nations General Assembly from 1999 to 2002.

Dr. Tiago Pitta e Cunha represented Portugal and the then 15 Member States of the EU in the UN on Oceans Affairs during the Portuguese and the French EU Presidencies in 2000. He was a delegate to the International Sea Bed Authority, where he was Vice President of the Council, the UN Informal Consultative Process on Oceans and in the Assembly of State Parties of the UN Convention on the Law of the Sea.

In 2003, the Portuguese Prime Minister appointed him Coordinator of the Oceans Strategic Commission, a high-level working group in charge of designing the Country's national strategy for the oceans. He was a member of the Cabinet of the European Commissioner for Maritime Affairs from November 2004 to February 2010, and was in charge of the development of the new EU Integrated Maritime Policy.

Currently Dr. Tiago Pitta e Cunha is Counselor for the Environment, Science and Maritime Affairs to the President of Portugal.

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# JOHN B. RICHARDSON Special Adviser on Maritime Affairs, FIPRA International, Brussels, Belgium

John Richardson was born in the UK on December 22, 1944 and grew up in Newcastle-upon-Tyne. He has masters degrees in chemistry from the University of Cambridge and Economics from University College London. He was marked by the societal changes of the 60s, the music of Bob Dylan, and Robert Pirsig's "Zen and the Art of Motorcycle Maintenance".

He spent four years as an economist with Unilever, before joining the European Commission to work on environmental policy in 1973. From 1978 to 1996 he occupied various posts in the External Relations part of the European Commission, including EU negotiator for trade in services during the Uruguay Round, and Unit Head, first for relations with the U.S., then for relations with Japan. In October 1996 he became Deputy Head of the Commission's Delegation to the U.S. in Washington, D.C., and in May 2001 Ambassador and Head of Delegation to the UN in New York. He maintains an abiding interest in how cultural differences impact on world affairs.

For three years from May 2005 he headed the Task Force which developed the Integrated Maritime Policy for the EU, adopted by the European Council in December 2007.

He left the European Commission after 35 years service in July 2008, but has retained a keen interest and an extensive network in maritime affairs. He is Chairman of the ESPO award committee and a member of the Board of Trustees of Sail Training International, and provides consultancy services through FIPRA (Finsbury International Policy & Regulatory Advisers). He has been a Member of the Board of the Salzburg Global Seminar for many years.

John Richardson is married to the German broadcaster, Irmtraud Richardson, and has three grown daughters. He lives in Brussels and Provence.

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# PROFESSOR DR. PETER SCHLOSSER Associate Director and Director of Research, The Earth Institute, Columbia University, New York, NY, USA

Peter Schlosser, Director of the Columbia Climate Center, is Vinton Professor of Earth and Environmental Engineering and Professor of Earth and Environmental Sciences at Columbia University, New York. He is Associate Director and Director of Research of the Earth Institute at Columbia University and serves as Chair of the Earth Institute Faculty. He received a M.S. from Heidelberg in 1981 and a PhD in 1985. Schlosser's research focuses on water systems, primarily in oceans and groundwater including problems caused by human impact. His ocean research concerns water circulation in the ocean surface, movement into the deep ocean, and circulation patterns within the deep ocean. His groundwater flow studies concern shallow and deep aquifers, especially as they relate to past continental climate and environmental risk/impact studies. Current research also is directed toward exploration of mixing and gas exchange in river and estuary environments. Schlosser is past Chair of the SEARCH program (Study of Environmental Arctic Change), Co-Chair of the Science Steering Group for ISAC (International Study of Arctic Change), and Member of the National Academy of Sciences Committee on the Future of Antarctic Science. He has served on a variety of national and international science steering and advisory committees. He is a Fellow of the American Geophysical Union and the American Association for the Advancement of Science and presently serves as President of the Ocean Sciences Section of the American Geophysical Union.

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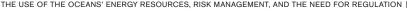
# FRANK SCHWEIKERT CEO, ALDEBARAN Marine Research & Broadcast, Hamburg, Germany

Frank Schweikert was born in Schramberg, Germany in 1963. He made his first journalistic experiences at the early age of 14 and has continued to work in journalism ever since. He started working at daily newspapers. At the "Südwestfunk" (SWF 3) he later became the assistant of Peter Stockinger, program director of the legendary youth radio SWF 3 in Baden-Baden. In 1983 and 1984 he was a radio journalist at the battalion for psychological defence of the German Armed Forces in Andernach.

Studying in Stuttgart and Munich, Schweikert then made his diploma in biology. Since 1992 he has been responsible for the operation of the research and media ship ALDEBARAN which serves as an interface between marine science and the media. Schweikert has worked as an author and producer for numerous public and private radio and TV stations, e.g. NDR, WDR, Deutschlandfunk, ZDF, SWR, and Radio Bremen. He is also a consultant to companies and universities and teaches at the Hamburg University of Applied Sciences (HAW) and the University of Lüneburg.

For the idea and concept of the ALDEBARAN, he received the "Special Award Environment and Journalism" in 1995 together with Volker Angres, head of the environment department of the German Television ZDF. Schweikert is a two-time award winner of the UNESCO Project "Education for Sustainable Development" for the projects "Sinking Paradise" and the student competition "Research at Sea". The youth competition was also named "Landmark in the Land of Ideas" by the President of the Federal Republic of Germany.

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# KIRSTEN ULLBÆK SELVIG Director General, Ministry of Fisheries and Coastal Affairs, Oslo, Norway

Ms. Selvig holds a law degree from the University of Copenhagen. Since 1996 she has been director general of the Norwegian Ministry of Fisheries and Coastal Affairs with responsibilities including infrastructure for maritime transport and safety at sea, ports and port security, oil spill preparedness and civil radio navigation policy, as well as the National Coastal Administration.

She studied for one year at the Norwegian Defense College and was previously assistant director general of the Department for Petroleum Affairs at the Norwegian Ministry of Finance. She has also worked as a legal advisor at the Danish Ministry of Environment.

Ms. Selvig held various academic positions in the field of law at the universities in Copenhagen and Oslo. Over the years she presented papers at various national and international conferences, and is the author of articles published in Norwegian and foreign periodicals.

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# THE HONORABLE DR. ANTON VASILIEV Ambassador at Large, Ministry of Foreign Affairs of the Russian Federation, Moscow, Russia

Anton Vasiliev graduated from the Moscow State Institute of International Relations in 1976.

In 1983 he obtained his PhD in Economics from the USSR Academy of Sciences.

Between 1976 and 1996 he held three postings in the USSR/Russian Embassy in Beijing, China, including DCM from 1993 to 1996. In between he served in the Ministry of Foreign Affairs (MFA) of the USSR/Russia in Moscow and was Deputy Director of the MFA First Asian Department.

From 1996 to 2002 he was Deputy Director of the Department for Security and Disarmament Affairs, MFA, Moscow. During that time he was also Head of the Russian Delegation to the Joint Compliance and Inspections Commission of the START Treaty.

From 2002 to 2007 he was Deputy Head of Mission of the Russian Federation in Geneva, Switzerland, representing Russia at the Conference on Disarmament.

Since January 2008 he has been the Ambassador at Large (Arctic Cooperation), MFA of the Russian Federation. He is Senior Arctic Official of Russia in the Arctic Council as well as Senior Official of Russia in the Barents Euro-Arctic Council (BEAC). He was the Chairman of the Committee of Senior Officials of BEAC for the period of the Russian Chairmanship of the Council from 2007 to 2009.

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# PROFESSOR DR. MARTIN VISBECK Deputy Director, IFM-GEOMAR; Head of Research Unit "Physical Oceanography", Leibniz Institute for Marine Sciences, Kiel, Germany

Prof. Visbeck received his PhD from Kiel University in Physical Oceanography in 1993. He was awarded a two year NOAA global and climate change postdoctoral fellowship at MIT, Cambridge, USA. Between 1995 and 2004 he held a position as Research Scientist at Lamont-Doherty Earth Observatory and Associate Professor at Columbia University, New York, where he worked on the ocean's role in the climate system with a focus on the North Atlantic Oscillation and Deep Water formation off Antarctica. Since October 2004 he has held the chair in Physical Oceanography at the Leibniz Institute of Marine Sciences (IFM-GEOMAR) at the University in Kiel, Germany. Prof. Visbeck's current research is concerned with ocean and climate variability and change with particular emphasis on the circulation of the Subpolar North Atlantic. For his research on observations of ocean circulation and mixing he makes use of research vessel based expeditions but is also increasingly using and advancing modern robotic platforms including profiling floats and gliders, and the development of ocean observatories for long-term observations in the water column. He has served on several national and international advisory committees. Currently he is the co-chair of the World Climate Research Programs Project CLIVAR (Climate Variability and Predictability), which facilitates global climate research in the atmosphere and ocean. He was the chair of the organizing committee of the World Meteorological Organization's Third World Climate Conference in 2009, which called for the development of the Global Framework for Climate Services (GFCS). He is a member of the German National Committee for Global Change Research, the German Research Foundations (DFG) Senatskommission for Oceanography, and is Speaker of the Kiel Research Cluster 'The Future Ocean' supported by the German Excellence initiative.

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# DR. WENDY WATSON-WRIGHT Assistant Director General and Executive Secretary, UNESCO Intergovernmental Oceanographic Commission, Paris, France

Wendy Watson-Wright has been Assistant Director General and Executive Secretary of the Intergovernmental Oceanographic Commission of the United Nations Educational, Scientific and Cultural Organization (IOC-UNESCO) since January, 2010. Headquartered in Paris, IOC-UNESCO promotes international cooperation and coordinates programmes in marine research, services, observation systems, hazard mitigation, and capacity development in order to better manage the nature and resources of the oceans and coastal areas.

From 2001 to 2009, she was Assistant Deputy Minister (ADM), Science, in Fisheries and Oceans Canada (DFO) where she was responsible for providing the leadership, and policy and scientific direction for all science activities in the department's fifteen science institutes throughout Canada, including oceanography, hydrography, and fisheries, aquaculture, habitat, climate, and aquatic ecosystem science.

Other positions she has held within the Canadian federal public service include research scientist (shellfish biotoxins) with DFO in Halifax, Nova Scotia; Director of the DFO St. Andrews (Marine) Biological Station in New Brunswick, Director General of DFO Audit and Evaluation (Ottawa, Ontario), and Director General of Strategic Policy and later Associate ADM of the Population and Public Health Branch of Health Canada.

A Killam scholar, Dr. Watson-Wright holds a PhD in Physiology from Dalhousie University in Halifax, Nova Scotia.

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# Co-Founder and Secretary General, EU-ARCTIC-Forum; Chief Adviser, Arctic Report, European Parliament, Brussels, Belgium

Mr. Weber is the Co-Founder and Secretary General of the EU-ARCTIC-Forum, the cross-party and cross-issue Arctic Forum in Brussels, which is organizing expert and stakeholder input into the political process and facilitating debate as the political driving engine on Arctic Policies in Brussels.

He has been working in the European Parliament as Chief Adviser on the Arctic Report and Adviser on Foreign Affairs, Resources, Energy and Development since 2005.

Prior to these commitments he chaired a project by the Konrad Adenauer Foundation, a German Think Tank, and has experience as a Political and Legal Counsel & Lawyer.

Mr. Weber has an academic background in law and political science and is affiliated with several think tanks and institutes in Europe, including Konrad Adenauer Foundation, CES, The European Geopolitical Forum, and Geopolitics North.

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# DR. MICHAEL ZETTLITZER General Manager, Quality, Health, Safety, and Environment, RWE Dea AG, Hamburg, Germany

Michael Zettlitzer has been working for RWE Dea AG since 1986. He started his career dealing with field applications of tertiary oil recovery, i.e. optimization of the degree of oil exploitation from reservoirs. From 1994 to 2010, Michael managed the department Production Engineering of RWE Dea's Exploration & Production Laboratory in Wietze (Lower Saxony). This department supports the production of oil and gas by the RWE Dea Group with chemical expertise, delivering both experimental work and consulting including a wide range of simulation software for e.g. material selection, corrosion prevention, pipeline lay-out. Since June 2010, Michael has been leading the QHSE department of RWE Dea. The staff of Michael's department currently comprises 15 people and is responsible for setting company standards regarding occupational health and safety as well as environmental issues and security in the company's operations in Germany and internationally.

Michael holds a diploma and a PhD in chemistry from the university in Hamburg.

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