EU-U.S. Conference Series
Sustainable Oceans:
Reconciling Economic Use and Protection

Conference No. 2
Developing a New International Architecture for Maritime Policy

New York, NY, July 11 to 13, 2012

Conference Venue
Faculty House at Columbia University
Presidential Level, 3rd Floor
64 Morningside Drive
New York, NY 10027
EU-U.S. Conference Series
Sustainable Oceans: Reconciling Economic Use and Protection

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Under the High Patronage of
H.S.H. Prince Albert II of Monaco

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64 Morningside Drive
New York, NY 10027
Introduction

Conference Bureau
Responsible:
Barbara Langholf, Dräger Foundation
Theresa Milow, Dräger Foundation
Phone: +49 451 882 2151

The way our world will look like 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. Remaining true to the philosophy of its founder Heinrich Dräger, the Dräger Foundation, established in 1974, wishes to bring people together to jointly develop ideas for the future within the framework of international dialogue. Previous conferences hosted by 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 and boast more than 50% of its biodiversity. Thanks to their vast resources and raw materials, they are one of the cornerstones of the quality of human life. According to World Bank figures, 350 million jobs are estimated to be linked to the oceans globally, and 1 billion people in developing countries depend on fish for their primary source of protein. However, our oceans are increasingly endangered by unfettered exploitation and ecological damage from overfishing, noise, pollution, and acidification. Only 2% of the oceans are protected areas. 90% of big predators are gone. 38% of coral reefs have been destroyed since 1980 according to latest figures published by UNEP.

There is an urgent need not only for coastal states to take on their responsibilities and to reach an international consensus with a view to maintaining a balance between economic growth, environmental protection and safeguarding of social interests. The conference aims at identifying solutions to best manage these challenges. It seeks to increase awareness and to facilitate a dialogue between the global business community, politicians worldwide, and society as a whole.

Following on from the Dräger Foundation’s XVII Malente Symposium in 2008 entitled “More than Water – Oceans and Global Responsibility”, the Foundation decided to launch further conferences devoted to the subject of our vulnerable oceans. This is the second in a series of three EU-U.S. conferences dealing with “Sustainable Oceans: Reconciling Economic Use and Protection”. The conference series took off in 2011 with the 1st conference in Hamburg, Germany, exploring “The Use of the Ocean’s Energy Resources, Risk Management and the Need for Regulation”.

The 2nd conference will pursue and intensify the debate from the 1st conference on the value of the oceans’ ecosystems and biodiversity, and will focus on economic gains and damage from fishing and shipping. Moreover, this conference aims at reaffirming the need for the international community to take collective action and appropriate steps in order to prevent further damage from fishing and shipping. The 3rd conference, to be held in Lisbon in 2013, aims at developing, fostering and strengthening international cooperation towards good governance and sound maritime policies for sustainable marine development. How can we regulate the use of the oceans’ resources and strike a balance between governance and regulatory overkill?

The conferences bring together experts and stakeholders from Europe as well as the American continent to discuss these challenges in a comprehensive way and to identify practical solutions to facilitate future sustainable development. One of the key objectives of this conference series is to help establish the European Ocean Commission of the European Commission and to link it with the U.S. Ocean Commission. We want to help initiate a joint EU-U.S. white paper on the state of the oceans and coasts for politics as well as business and finally encourage an “Ocean Blueprint” for good governance for the 21st century which is meant to propose a remedial action plan towards sustainable oceans to our governments.
We are proud and honored that **H.S.H. Prince Albert II of Monaco** has kindly agreed to assume High Patronage over this conference series.

For their active support in the preparation of this conference, the Dräger Foundation wishes to thank its cooperation partners,

**The Earth Institute, Columbia University**, New York, NY, USA,
**the Cluster of Excellence “The Future Ocean”,** Kiel, Germany, and
**the GEOMAR | Helmholtz Centre for Ocean Research Kiel, Germany,**

as well as its supporting partners:

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

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:

**Uta Bellion**, Director, EU Marine Programme, Pew Environment Group, Brussels, Belgium
**Dr. Tiago Pitta e Cunha**, Counselor for the Environment, Science and Maritime Affairs to the President of Portugal, Lisbon; Portugal
**Dr. Jan-Stefan Fritz**, German Marine Research Consortium (KDM), Brussels, Belgium
**Paul Holthus**, Executive Director, World Ocean Council, Honolulu, Hawaii, USA
**R. Andreas Kraemer**, Director, Ecologic Institute, Berlin, Germany
**Professor Karin Lochte**, Director, Alfred Wegener Institute for Polar and Marine Research in the Helmholtz Association, Bremerhaven, Germany
**Professor Michael Orbach**, Professor of Marine Affairs and Policy, Duke University Marine Laboratory, Beaufort, NC, USA
**Professor Hans J. Peters**, former Lead Arranger and Chief Advisor, Maritime Affairs, The World Bank Group, Washington, D.C., USA; President, Baltic Maritime Advisers, Hamburg, Germany
**John Richardson**, Special Adviser on Maritime Affairs, FIPRA International, Brussels, Belgium
**Professor Peter Schlosser**, Associate Director and Director of Research, The Earth Institute, Columbia University, New York, NY, USA
**Frank Schweikert**, CEO, ALDEBARAN Marine Research & Broadcast, and German Sea Foundation, Hamburg, Germany, who is also exhibiting films, video panoramas and full dome underwater impressions from his excursions;
**Professor Martin Visbeck**, Chair in Physical Oceanography, GEOMAR | Helmholtz Centre for Ocean Research Kiel and Member of the Cluster of Excellence “The Future Ocean”, Kiel, Germany

Responsible for the preparation and organization of the conference:

**Petra Pissulla**
Director, Dräger Foundation, Lübeck, Germany
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The Organizers

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.

THE EARTH INSTITUTE
COLUMBIA UNIVERSITY

THE EARTH INSTITUTE
The Earth Institute, Columbia University mobilizes the sciences, education and public policy to achieve a sustainable earth. Through interdisciplinary research among more than 700 scientists and researchers in diverse fields, the Earth Institute is adding to the knowledge necessary for addressing the challenges of the 21st century and beyond. With over two dozen associated degree curricula and a vibrant fellowship program, the Earth Institute is educating new leaders to become professionals and scholars in the growing field of sustainable development. We work alongside governments, businesses, nonprofit organizations and individuals to devise innovative strategies to protect the future of our planet.

www.earth.columbia.edu
FUTURE OCEAN – KIEL MARINE SCIENCES

The Cluster of Excellence “The Future Ocean” pursues a research approach that is unique in Germany: marine researchers, geologists and economists join forces with mathematicians, computing, medical, legal, and social scientists to investigate ocean and climate change from a multidisciplinary perspective. A total of over 200 scientists from Christian Albrechts University of Kiel (CAU), the Helmholtz Centre for Ocean Research Kiel (GEOMAR), the Institute for the World Economy (IfW) and the Muthesius Academy of Fine Arts are using innovative means to share their findings with the international scientific community, stakeholders, decision makers, civil society and the public at large because they believe that by understanding the ocean we can sustain our future.

In order to transfer this interdisciplinary approach to the education of young scientists, the Integrated School of Ocean Sciences (ISOS) was created as a central element within the Cluster. Further, scientists of the “Future Ocean” have access to a wide-ranging and excellent research infrastructure. These platforms include tools for ocean observation, numerical simulation, isotope and tracer analysis and molecular biosciences. The Cluster of Excellence “The Future Ocean” is funded by the German Research Foundation (DFG).

GEOMAR | HELMHOLTZ CENTRE FOR OCEAN RESEARCH KIEL

The GEOMAR – Helmholtz Centre for Ocean Research Kiel is one of the world’s leading institutions in the field of marine sciences. The mission of GEOMAR is to investigate the physical, chemical, biological, and geological processes in the oceans and their interaction with the seafloor and the atmosphere. With this spectrum ranging from the deep sea to the atmosphere, GEOMAR is unique in Germany. Additionally, the institute is bridging the gap between basic and applied science in a number of research areas. Currently, GEOMAR has a staff of about 750, including 400 scientists.

The state-of-the-art infrastructure of GEOMAR includes four research vessels, two remotely operated underwater vehicles with diving depths down to 6000 meters, an autonomous underwater vehicle with a depth range of 6000 meters, the only manned research submersible in Germany (400 m diving depth) as well as a large number of specialized instruments and technologies for ocean research.

The overarching research topics of GEOMAR include: (1) the role of the ocean in climate change, (2) human impact on marine ecosystems, (3) biological, mineral and energy resources as well as (4) natural marine hazards. GEOMAR works world-wide in all oceans within an international network of scientific partners.
The Supporters
The Supporters

ALDEBARAN Marine Research & Broadcast
ALDEBARAN is an organization and cross-media agency providing and communicating scientific research and documentation on marine sustainability. 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 to different companies and university institutions by presenting strategies and implementation tools for effective public relations.

ALDEBARAN is the only agency equipped with a floating laboratory and studio aboard the well-known research and media vessel 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 do research on 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 as well as efforts made by companies and initiatives to combat and adapt to climate change in the Metropolitan Region of Hamburg.

ALFRED WEGENER INSTITUTE FOR POLAR AND MARINE RESEARCH IN THE HELMHOLTZ ASSOCIATION
The Bremerhaven-based Alfred Wegener Institute for Polar and Marine Research in the Helmholtz Association 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.
The Program
The Program

Wednesday, July 11, 2012

Faculty House at Columbia University
Skyline Dining Room, 4th Floor
64 Morningside Drive
New York, NY 10027
Phone +1-212-854-1200

5:45 pm Coach shuttle service from the Hudson Hotel to the dinner location
6:30 pm Reception and Opening Dinner

Welcome

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

Opening Keynotes

Professor Jeffrey D. Sachs
Director, The Earth Institute, Columbia University, New York, NY, USA
(live video transmission)

SUSTAINABLE OCEANS IN THE CONTEXT OF THE
SUSTAINABLE DEVELOPMENT GOALS

Dr. Barry D. Gold
Program Director, Marine Conservation Initiative at the Gordon and
Betty Moore Foundation, Palo Alto, CA, USA

CHARTING A COURSE TO HEALTHY OCEANS AND COMMUNITIES

Coach shuttle service back to the Hudson Hotel

Thursday, July 12, 2012

Faculty House at Columbia University
Presidential Level, 3rd Floor
64 Morningside Drive
New York, NY 10027
Phone +1-212-854-1200

7:45 am Coach shuttle service from the Hudson Hotel to the conference venue
8:30 – 8:40 am  Welcome

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

Professor Dieter Feddersen  
Member of the Board, Dräger Foundation, Lübeck, Germany

8:40 – 9:00 am  Opening

Dr. Yannick Beaudoin  
Head of Marine Programme, UNEP/GRID-Arendal, Arendal, Norway

THE ECONOMICS OF ECOSYSTEMS AND BIODIVERSITY (TEEB) FOR THE OCEANS: BUILDING UPON THE UNTAPPED OPPORTUNITIES OF A GREEN ECONOMY IN A BLUE WORLD

9:00 – 10:30 am  Session 1

Moderator  Brent Goff  
Main News Anchor, Deutsche Welle TV (DW), Berlin, Germany

VALUING THE OCEANS (I):

What kind of “service” is provided by the oceans with respect to ecosystems, biodiversity, natural resources, climate, transportation, fishery and recreation?

Speakers  
Professor Tony Haymet  
Director, Scripps Institution of Oceanography, Vice Chancellor for Marine Sciences,  
University of California, San Diego, CA, USA

Dr. Larry McKinney  
Executive Director, Harte Research Institute for Gulf of Mexico Studies,  
Texas A&M University, Corpus Christi, TX, USA

Professor Jean-Paul Rodrigue  
Department of Global Studies and Geography, Hofstra University,  
New York, NY, USA

Professor Paul Snelgrove  
Professor and Canada Research Chair in Boreal and Cold Oceans Systems,  
Memorial University of Newfoundland, St. John’s, NL, Canada

10:30 – 10:40 am  Achim Steiner  
Executive Director, UNEP; Under-Secretary-General of the United Nations,  
Nairobi, Kenya  
(video message)

10:40 – 11:00 am  Coffee Break
Continuation Session 1

VALUING THE OCEANS (II):

The destruction of marine habitat: What would it cost mankind?
- Estimating the costs for industrialized countries and developing countries resulting from climate change and acidification of the oceans
- What repercussions do rising sea levels and ocean acidification have on food security, human health, and coastal populations?
- What effects does the pollution caused by shipping, drilling, and mining have on coastal waters and deep seas?
- Overfishing, damage to biodiversity

Speakers
- **Professor Hartmut Grassl**  
  Former Director, Max Planck Institute for Meteorology, Hamburg, Germany
- **Professor Peter M. Herzig**  
  Executive Director, GEOMAR | Helmholtz Centre for Ocean Research Kiel, Germany
- **Professor Michael Orbach**  
  Professor of Marine Affairs and Policy, Duke University Marine Laboratory, Beaufort, NC, USA
- **Professor Paul Snelgrove**  
  Professor and Canada Research Chair in Boreal and Cold Oceans Systems, Memorial University of Newfoundland, St. John’s, NL, Canada

12:30 – 1:30 pm  Luncheon  
Skyline Dining Room, 4th Floor

1:30 – 3:00 pm  Session 2

Moderator  
**R. Andreas Kraemer**  
Director, Ecologic Institute, Berlin, Germany

DEFINING “BLUE” GROWTH AND OCEAN SUSTAINABILITY
- Where do we stand and what do we need: An overarching holistic approach
- What kind of scientific and stakeholder information do we need for a useful, suitable and realistic assessment: Does an IPCC for the oceans make sense?

Speakers
- **Dr. Tiago Pitta e Cunha**  
  Counselor for the Environment, Science and Maritime Affairs to the President of Portugal, Lisbon, Portugal
- **Christopher Mann**  
  Senior Officer and Director, Campaign for Healthy Oceans, Pew Environment Group, Washington, D.C., USA
**3:00 – 3:30 pm**  Coffee Break

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**3:30 – 5:00 pm**  Session 3

**Moderator**  
R. Andreas Kraemer  
Director, Ecologic Institute, Berlin, Germany

**SECURING “BLUE” GROWTH: HOW AND FOR WHOM?**

- How to strike a sound balance between political, economic and environmental interests?
- How to deal with growing competition over marine resources?
- How to secure a fair distribution of ocean resources?
- How to avoid the destruction of ocean habitats caused by trawling, drilling, etc?
- How to effectively protect sensitive marine areas?
- Bringing together competent authorities (European Biosafety Association EBSA)
- Ensuring an appropriate evidence base for marine spatial planning

**Speakers**

- **Professor David Johnson**  
  Executive Secretary, OSPAR Commission, London, UK

- **Professor Manuel Pinto de Abreu**  
  Secretary of State for the Sea, Ministry of Agriculture, Sea, the Environment and Spatial Planning, Lisbon, Portugal

- **Professor Martin Visbeck**  
  Chair in Physical Oceanography, GEOMAR | Helmholtz Centre for Ocean Research Kiel, Germany

- **Sally Yozell**  
  Policy Director; Senior Advisor to the Under Secretary of Commerce for Ocean and Atmosphere, National Oceanic and Atmospheric Administration (NOAA), Washington, D.C., USA

**5:00 pm**  Coach shuttle service back to the Hudson Hotel
Reception and Dinner
Hudson Hotel
356 West 58th Street
New York, NY 10019
Phone: +1 212 554 6308

6:30 pm Reception
Sky Terrace, 15th Floor

7:30 pm Dinner
West Terrace, 24th Floor

RIO +20: FRESH IMPETUS FOR THE PROTECTION OF THE OCEANS?

Discussion with:

Professor Dr. Biliana Cicin-Sain
President, Global Ocean Forum;
Director, Gerard J. Mangone Center for Marine Policy,
School of Marine Science and Policy, College of Earth, Ocean and Environment,
University of Delaware, Newark, DE, USA

Brice Lalonde
Assistant Secretary-General (United Nations);
Executive Coordinator of UNCSD – Rio +20, New York, NY, USA

Moderator Laura Cantral
Partner, Meridian Institute; Director, Joint Ocean Commission Initiative,
Washington, D.C., USA

Friday, July 13, 2012

Faculty House at Columbia University
Presidential Level, 3rd Floor
64 Morningside Drive
New York, NY 10027
Phone +1-212-854-1200

8:15 am Coach shuttle service from the Hudson Hotel to the conference venue

9:00 – 10:30 am Session 4

Moderator John Richardson
Special Adviser on Maritime Affairs, FIPRA International, Brussels, Belgium

INTERNATIONAL SHIPPING INITIATIVES TOWARDS OCEAN SUSTAINABILITY AND SAFETY
• Economic aspects
• Political aspects
• Environmental protection (also: ballast water, invading species)
• Dealing with the Arctic passages in times of global warming
Speakers

Jochen Deerberg
Owner and CEO, Deerberg-Systems GmbH, Oldenburg, Germany

Peter Hinchliffe OBE
Secretary General, International Chamber of Shipping (ICS),
International Shipping Federation (ISF), London, UK

Dr. Elliott A. Norse
President, Marine Conservation Institute, Bellevue, WA, USA

Jamie Sweeting
Vice President Environmental Stewardship and Global Chief Environmental Officer,
Royal Caribbean Cruises Ltd., Miami, FL, USA

Captain Andrew Winbow
Assistant Secretary General and Director of Maritime Safety,
International Maritime Organization (IMO), London, UK

10:30 – 11:00 am Coffee Break

11:00 am – 11:30 am Session 5

Moderator Lisa Speer
Director, International Oceans Program, Natural Resources Defense Council (NRDC),
New York, NY, USA

PROTECTING OCEAN LIFE:
FISHING IN NATIONAL AND INTERNATIONAL WATERS
• How to regulate and control fishing quotas?
• How to deal with illegal, unreported and unregulated fishing (IUU)?
• Toxic fish due to plastic and hazardous waste: How to stop it?
• Damage from ghost fishing, acidification, climate change
• Examples of best practice

Speakers

Dr. Anne Christine Brusendorff
General Secretary, International Council for the Exploration of the Sea (ICES),
Copenhagen, Denmark

Dr. Rainer Froese
Senior Scientist, GEOMAR | Helmholtz Centre for Ocean Research Kiel, Germany

Rupert Howes
Chief Executive Officer, Marine Stewardship Council (MSC), London, UK

12:30 – 1:30 pm Lunch
Skyline Dining Room, 4th Floor
1:30 – 3:00 pm  Concluding Session:

Moderator  Professor Peter Schlosser
Director of Research, The Earth Institute, Columbia University, New York, NY, USA

PAVING THE WAY FOR THE 3RD CONFERENCE
• What do we want to have achieved by the end of the conference series?
• Building networks for maritime surveillance: How to evaluate existing initiatives, how to trigger joint action?
• Bringing together actors from regional, national, international and sea basin levels
• Engaging politics, business, science, and NGOs in a joint “Blueprint for Good Governance towards Sustainable Use of the Seas”

Speakers  Professor Mojib Latif
Head of Division, Ocean Circulation and Climate Dynamics; Head of Unit, Marine Meteorology, GEOMAR | Helmholtz Centre for Ocean Research Kiel, Germany

Professor Hans J. Peters
Adjunct Faculty Member, School of Public Policy, George Mason University; Former Lead Arranger and Chief Advisor, Maritime Affairs, The World Bank Group, Washington, D.C., USA; President, Baltic Maritime Advisers, Hamburg, Germany

Admiral Anne-François de Saint Salvy
Former Maritime Prefect for the Atlantic, Brest, France

Dietrich Seele
Expert on Integrated Maritime Policy, Federal Ministry of Transport, Building and Urban Development, Berlin, Germany

ENCOURAGING BEST PRACTICE: REWARD MECHANISMS FOR OCEAN SUSTAINABILITY

Speakers  Paul Holthus
Executive Director, World Ocean Council, Honolulu, HI, USA

Professor Martin Visbeck
Chair in Physical Oceanography, GEOMAR | Helmholtz Centre for Ocean Research Kiel, Germany

3:00 pm  Coach shuttle service back to the Hudson Hotel

PRESS CONFERENCE

Moderator  Frank Schweikert
Journalist and CEO, ALDEBARAN Marine Research & Broadcast Hamburg, Germany
The Speakers
Yannick Beaudoin, PhD, is the Head of Marine Programme for the United Nations Environmental Programme (UNEP) collaborating center in Norway, UNEP/GRID-Arendal. His current project work activities include the development of a global TEEB for Oceans Study, the management of the UNEP Global Outlook on Methane Gas Hydrates and co-ordination of the SPC-SOPAC – UNEP Pacific Marine Minerals and Deep Sea Mining Assessment. He is also a lead geoscientist with the UNEP Shelf Programme, coordinated by UNEP/GRID-Arendal, which has been providing technical assistance to developing states working to delineate the outer limits of their continental shelf according to criteria outlined in Article 76 of UNCLOS. The UNEP/GRID-Arendal Marine Programme is in the process of developing capacity building initiatives designed to assist developing states with the spatial management of their deep sea resources including conventional oil and gas, unconventional hydrocarbons, minerals and renewable energy. Dr. Beaudoin also provides project support to UNEP/GRID-Arendal’s Green Economy and Ecosystem-Based Economic Development activities that includes working with countries, communities and industry towards the implementation of sustainable economic practices. From 2001 to 2006, Dr. Beaudoin was a project geologist with Falconbridge Ltd managing green fields nickel, copper and platinum group element exploration projects in Canada and Norway. He has also worked in geological exploration for Phelps Dodge of Canada Ltd. and the Geological Survey of Canada. In 2006, Dr. Beaudoin received his doctorate in marine and economic geology from the University of Toronto.

As of 1 February 2012, Dr. Anne Christine Brusendorff is General Secretary of the International Council for the Exploration of the Sea (ICES). The past 14 years have been spent working for the Baltic Marine Environment Protection Commission (HELCOM). Since 2003, she has been leading that organization as Executive Secretary, but also served as Deputy Executive Secretary and Professional Secretary (maritime matters). Dr. Anne Christine Brusendorff studied law at the University of Copenhagen and International Law of the Sea and International Law at the London School of Economics and Political Science before completing her PhD (Environmental restraints upon shipping) at the University of Copenhagen. Before joining HELCOM, Dr. Brusendorff served in the Danish administration.
Laura Cantral is a Partner at Meridian Institute, where she works out of the Washington D.C. office. Ms. Cantral has more than 15 years’ experience designing and facilitating multistakeholder dialogues and strategy development processes. At Meridian, she conducts convening assessments, designs collaborative processes, raises funds, facilitates meetings, helps diverse participants develop consensus documents, and conducts implementation activities such as press releases and briefings. Ms. Cantral has extensive experience working on ocean and coastal policy issues. Most of her projects at Meridian focus on ocean and coastal issues, including the Joint Ocean Commission Initiative, a collaborative effort of the U.S. Commission on Ocean Policy and the Pew Oceans Commission, as well as others that focus on the effective implementation of ocean policy at the international, national, regional, and state levels. Prior to joining Meridian in 2005, 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 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. Ms. Cantral has a BA in English and a JD in Law, both from the University of Mississippi.

Dr. Biliana Cicin-Sain (PhD in political science, UCLA, postdoctoral training, Harvard University) 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 Ocean 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 Ocean Forum has brought together ocean leaders from governments, nongovernmental organizations, UN agencies, the private sector, and scientific associations from over 110 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; typically been given to key diplomatic figures which have made a significant contribution in advancing specific aspects of international law and policy; 2010 award of an honorary doctorate in maritime law by Korea Maritime University; 2007 recipient of the Coastal Zone Foundation Award (U.S.); 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).
In 1979, Jochen Deerberg was given a consultancy mandate by Deutsche Gerätebau owned at that time by Prof. Zahn, President of Mercedes, and Consul Pavel, proprietor of the Rheinnadel Group. The mandate read “Analysis of the company and especially the environmental division” – the basis for starting Deerberg-Systems.

What started with an idea and some single components, developed to become the industry’s first complete waste management system (Incineration, Food Waste, Recycling, Sewage Treatment) delivered for Seabourn Pride in 1988 and paved the way for today’s Deerberg-Multi-Purpose-Waste-Management-System MPWMS®.

The real breakthrough for the company came in 1992 when Jochen Deerberg organized the 1st Environmental Workshop for the Executives of the Cruise Industry in Miami. The idea of organizing environmental workshops to increase awareness and better the industry’s environmental footprint was repeated in 2002 in Hamburg. It finally culminated in taking over the organizer’s office for the first Global Maritime Environmental Congress 2010 which brought together leading international stakeholders from all key maritime sectors to discuss the environmental challenges facing the industry.

Deerberg-Systems’ Multi-Purpose-Waste-Management-System MPWMS®, a result of 30 years market-led innovation, provides owners with integrated solutions fulfilling strictest regulations worldwide and is today acknowledged to be the most reliable technology for maritime waste treatment. With 177 Large Passenger Vessels, 72 Navy Vessels, 27 SuperYachts, 20 Special Vessels and over 600 Merchant Vessels equipped, Deerberg maintains the pole-position in maritime environmental technology.

Professor Dieter Feddersen was born in Kiel, Germany, 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 to 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, the American Institute for Contemporary German Studies, Washington D.C., and the Supporter Group of the Friends of the Komische Oper Berlin.
Rainer Froese is senior scientist at the Helmholtz Centre for Ocean Research (GEOMAR) in Kiel, Germany. Together with Daniel Pauly, he “invented” FishBase (www.fishbase.org) and has been FishBase Project Leader and Coordinator since 1990. FishBase is the most widely used biological information system with over half a million visitors per month. Dr. Froese is author of over 100 scientific publications with close to 2000 citations in the primary literature. His research interests range from fish biology, population dynamics, aquatic biodiversity and biogeography to improved fisheries management. He was also a founding member of Species 2000 and of the Ocean Biogeographic Information System (OBIS), the information component of the Census of Marine Life program. Currently, he coordinates several projects aiming at creating the first global atlas of the living ocean (www.aquamaps.org). Dr. Froese has recently published several works on the status of European fish stocks, showing among other that single species management can go a long way towards the goals of ecosystem-based fisheries management, and that under current management, European fish stocks will not be able to recover by 2015, the goal set by the Johannesburg summit of 2002. He is co-author of a recent study that discusses key issues with the Common Fisheries Policy. He is lead author of a study that lays out the principles for future European fisheries management plans. In another recent study, he presents options for European fisheries (Example of eastern Baltic cod) to become highly profitable enterprises while at the same time restoring marine ecosystems to a good environmental status. His current research focuses on management systems for data-poor stocks. More information is available on his personal page at http://www.fishbase.de/rfroese.

Brent Goff is a main news anchor and talk show host for Deutsche Welle (DW) TV's English program in Berlin. He anchors the news program, "Journal," and hosts his own weekly talk show, AGENDA. 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. Brent has reported extensively on ecological, marine and sustainability issues as well as on the challenges of generating more green industries. 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 moderated the CeBIT Global Conferences in Hannover, Germany in 2012, interviewing the leaders of the high tech and IT business world.

He 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 to 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.
One of the core challenges facing marine conservation is to find science-based solutions that align social and economic incentives with conservation outcomes, emphasizing that conservation directly increases people’s quality of life. At the Moore Foundation, Barry leads efforts to ensure healthy oceans through comprehensive approaches that integrate human use with conservation and that foster sustainable jobs and economic development. This includes work to shift fisheries management to an incentive-based system, which research shows can end overfishing, rebuild depleted stocks, and sustain fishing communities.

Barry has dedicated his career to working at the interface between environmental science and policy. He has held senior positions with the David and Lucile Packard Foundation, the Department of the Interior, the U.S. House of Representatives, the National Academy of Sciences, and the American Association for the Advancement of Science (AAAS). He has advised senior officials in Congress, the White House, federal and state agencies, and non-governmental organizations.

Barry is currently President of the Board of the Consultative Group on Biological Diversity, the nation’s leading affinity group for environmental funders and Vice-Chair of the Board of the California Ocean Science Trust. In addition, he serves on external advisory committees for organizations such as the National Socio-environmental Synthesis Center, the Collaborative Institute on Oceans, Climate and Security, and the Conservation International – Science Advisory Council, among others. In 2007, he was elected a Fellow of the AAAS.

Barry has degrees in biology, ecology, and political science including a DSc from Washington University; an MA from George Washington University; an MS from the University of Connecticut; and a BS from the University of Miami.

Hartmut Grassl, former director of the Max Planck Institute for Meteorology in Hamburg, Germany, was born in Bavaria in 1940. From 1994 to 1999, he has been working as director of the World Climate Research Programme at the World Meteorological Organization in Geneva, Switzerland, and he has chaired the Global Change Advisory Council to the German Government from 1992 to 1994 and from 2001 to 2004. Dr. Grassl has a diploma in Physics (1966) and a PhD in Meteorology (1970) from the Ludwig Maximilian University in Munich, Germany. He was committed to scientific research at the Johannes Gutenberg University in Mainz and at the Max Planck Institute for Meteorology in Hamburg. In 1981, Hartmut Grassl received a call as Professor of Theoretical Meteorology at the Christian Albrecht University in Kiel. From 1984 to 1988, he served as Head of the Physics Department of the Helmholtz Centre Geesthacht near Hamburg. In 1988, he was appointed as Professor of General Meteorology at the University of Hamburg and as Director at the Max Planck Institute for Meteorology in Hamburg. He executed both functions until his formal retirement in 2005. Hartmut Grassl continues working as director emeritus at the Max Planck Institute for Meteorology. His major research interests are earth observation from space, climate change and climate change policy as well as interdisciplinary research in environmental sciences.

For his work as a scientist and a communicator of scientific results, especially in climate change research, he has received several awards, for example the German Environmental Prize and the German Order of Merit. Hartmut Grassl is honorary doctor of St. Petersburg State University, Freie Universität Berlin, and West Hungarian University Sopron.
Tony Haymet is a distinguished scientist, educator, policy advisor and business development leader. During 2006 to 2012, he has been professor of Oceanography at Scripps Institution of Oceanography, at the University of California San Diego, and Director and Vice-Chancellor for Marine Sciences. He is also co-founder and Chair of CleanTech San Diego, a 501c6 business organization promoting and supporting clean technology businesses, now with over 100 members. He is appointed to the VCAT of the National Institute of Standards and Technology (NIST). Since 2009, he has served as a part-time Strategic Advisor to Pegasus Capital Advisers on matters relating to the environment, oceans, food security and climate change. Tony Haymet was born and educated in Sydney, and gained a PhD at the University of Chicago. Prior to his appointment at Scripps, he was Chief of Marine and Atmospheric Research, with 5 laboratories around Australia, and then Science and Policy Director, for CSIRO, Australia’s science, industry and business research agency. From 1991 to 1998, he held the Established Chair of Theoretical Chemistry at the University of Sydney. He is the author of over 175 peer-reviewed publications. In 2010, Professor Haymet served NIST Blue Ribbon Commission on Management and Safety (II). Tony Haymet brings to the understanding of the natural world a business focus and understanding of ocean resources, in all their forms, and technological solution to analyzing and monitoring greenhouse gas emissions. He is a frequent contributor of Op-Ed pieces to newspapers around the world, a contributor to the World Economic Forum meetings in Davos, Dubai and Abu Dhabi, and to climate meetings in Copenhagen and Cancun, and a guest of leading radio and TV analysis programs. He also presented at The Economist’s Ocean meeting in Singapore.

Professor Peter Herzig has been Director and CEO of the former Leibniz Institute of Marine Sciences IFM-GEOMAR in Kiel, Germany since 2004. As of January 1, 2012 he is Executive Director of GEOMAR | Helmholtz Centre for Ocean Research in Kiel. Professor Herzig also serves as Maritime Coordinator of the Federal State of Schleswig-Holstein and was appointed Maritime Ambassador of the European Union in 2007. He is a member of a number of national and international boards and committees and was a Senator of the German Science Foundation DFG from 2005 to 2011. Professor Herzig is currently President of the international “Partnership for Observation of the Global Ocean”, and a member of the advisory boards of the National Oceanography Centre in the UK and the Halifax Marine Research Institute in Canada. In 2000 Professor Herzig received the prestigious Leibniz Award of the German Science Foundation (€1.5m) for his research on seafloor hydrothermal systems and associated metal deposits. He is a member of the German National Academy of Science and Engineering acatech and the Saxonian Academy of Sciences in Leipzig. In 2010 he was awarded the Medal of Merit of the Federal State of Schleswig-Holstein and appointed to the Fore-sight Committee of Schleswig-Holstein chaired by the Prime Minister.

Professor Herzig is an economic geologist by training, and has participated in numerous oceanographic expeditions in all oceans, several as Chief Scientist. He has experience with deep diving and remotely operated vehicles, and also sailed as scientist and Chief Scientist for the Ocean Drilling Program. From 1993 to 2003, Peter Herzig was Full Professor and Chair of Economic Geology and Petrology as well as Head of the Leibniz Laboratory for Applied Marine Research at Freiberg University of Mining and Technology in Germany. He served as Dean of the Faculty for Geosciences, Geo-Engineering and Mining from 1997 to 1999. Following a Visiting Professorship at Southampton Oceanography Centre in the UK, Peter Herzig became Full Professor at the University of Kiel in 2003.
The combined membership of ICS and ISF comprises 36 national shipowners’ associations and represents around 80% of the world’s merchant tonnage. One of the principal roles of these organizations is to co-ordinate the representation of the international maritime industry at the International Maritime Organization, the International Labour Organization, and at other intergovernmental fora which impact on the interests and well-being of international shipping.

Peter had a first career at sea in the Royal Navy, including 5 years in command of submarines. He joined ICS and ISF in 2001 and for many years, as the Marine Director, he led ICS representation on safety and environmental issues at the IMO. He was closely engaged in the development of the ISPS Code and has been involved in international governmental and intergovernmental discussion on counter-piracy matters over several years. He has also been instrumental in the development of environmental regulation on, inter alia, air emissions and CO2 emission reduction. He is deeply interested in ocean governance issues and the UN Convention on the Law of the Sea.

Peter is a Vice-President of the Nautical Institute.

Peter has a lifelong involvement in maritime issues and includes sailing amongst his hobbies. Travel, trekking and international relations are abiding interests.

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 worked 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.
Rupert Howes has been Chief Executive of the Marine Stewardship Council since October 2004. He received a Skoll Award for Social Entrepreneurship in 2007 for his work in establishing the MSC as the world’s leading fishery certification and eco-labeling program. Under his leadership the MSC has driven forward change in the way that the global seafood industry operates. The aim being to use the program to contribute to the health of the world’s oceans by recognizing and rewarding sustainable fishing practices, influencing the choices people make when buying seafood, and working with partners to transform the seafood market to a sustainable basis.

A lifelong committed environmentalist and a professionally qualified accountant, Rupert came to the MSC from the influential UK organization Forum for the Future, which works in partnership with business, finance, government, local and regional bodies and universities to accelerate the transition to a more sustainable way of life. Rupert was Director of the Forum Sustainable Economy Programme. Before that he was a Senior Research Fellow at the Science Policy Research Unit, Sussex University and Research Officer at the International Institute for Environment and Development. He qualified as a Chartered Accountant with KPMG and holds an MSc in Environmental Technology from Imperial College, University of London and a BA (Econ) Hons. from Sussex University.

David Johnson is Executive Secretary to the OSPAR Commission and Bonn Agreement based in London and Emeritus Professor of Coastal Management at the UK Southampton Solent University. His career has included work in practical conservation, environmental consultancy, and higher education as well as intergovernmental marine environmental protection. His PhD considered the conservation of inter-tidal wetlands and he has led international work on Particularly Sensitive Sea Areas. He is a Chartered Geographer and Chartered Scientist. In 2002, David held a Caird Fellowship at the UK National Maritime Museum. He is currently on the Steering Group of the Global Ocean Forum, a member of the GESAMP pool of experts and a Visiting Professor at the World Maritime University in Malmo Sweden. During his time with OSPAR, David has helped refocus the work of the Commission, through production of the Quality Status Report 2010, taking into account the EC Marine Strategy Framework Directive, climate change impacts and the challenge of Marine Protected Areas in Areas Beyond National Jurisdiction. He is an advocate for communicating OSPAR’s achievements, forging partnerships and effective global networking. In 2010, in recognition for establishing the world’s first network of High Seas Marine Protected Areas, OSPAR received a WWF “Gift to the Earth” Award.
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 also became chairman of the Ecologic Institute in Washington, D.C.

Since 1993, he has been 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 specializing in corporate and governmental or "sovereign" debtors" ethics and sustainability. He is also a board member of Oekom Verlag, a publishing house dedicated to sustainable development, based in Munich, Germany.

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.

Brice Lalonde is a former French Ambassador for climate change international negotiations. He was appointed by the United Nations Secretary-General as Assistant Secretary-General, Executive Coordinator of UNCSD – Rio +20, New York, NY, USA.

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Christopher Mann joined the Pew Environment Group in 2007 and leads projects to develop science-based, precautionary standards for marine aquaculture and to advance federal legislation, implementing recommendations of the Pew Oceans Commission for ecosystem-based management of U.S. ocean waters.

Mann has more than 20 years of experience in marine policy and science. Before joining Pew, he was executive director of the Marine Aquaculture Task Force, a project of Woods Hole Oceanographic Institution with support from Pew and the Lenfest Foundation. The task force brought together leaders in aquaculture, conservation, marine science and policy to recommend national standards for sustainable aquaculture in U.S. marine waters.

He also oversaw the Pew Oceans Commission’s work on ocean governance and coastal development. He has managed legislative affairs on international environmental and economic issues at the State Department and has worked for the House of Representatives on marine resources conservation and management for the Committee on Merchant Marine and Fisheries and the Committee on Natural Resources.

Mann holds a bachelor’s degree in ecology from the University of Illinois and attended the University of Rhode Island’s Graduate School of Oceanography, where he studied marine zooplankton ecology and behavior.

Professor Dr. Mojib Latif counts among Germany’s best known climate scientists. His main areas of research interests are seasonal to interannual variability, decadal to centennial variability, anthropogenic climate change as well as model development and intercomparison. He is author and co-author of a plethora of scientific publications (a full list is available on his website). A Hamburg native, Latif holds a degree in Meteorology from Hamburg University. In 1987, he received his PhD in Oceanography from Hamburg University, where he obtained his qualification as university lecturer (habilitation) in oceanography in 1989. His professional experience includes his work at the Max Planck Institute for Meteorology (MPI), Hamburg, Germany, where he held several positions as scientist and senior scientist between 1983 and 2002. Since 2003, he has been Professor at the Leibniz Institute of Marine Sciences. Moreover, he has been a Professor at the GEOMAR | Helmholtz Centre for Ocean Research Kiel since 2012. Selected honors include the Deutsche Bank-IFM-GEOMAR Marine Research Award (2009), the Environment Media Award from German Environmental Aid for his lifetime commitment (2004), the Sverdrup Gold Medal of the American Meteorological Society (2000) or the Max Planck Award for “Public Science”. From 1993 to 1998, he was editor of the Monthly Weather Review and of the Journal of Climate from 1999 to 2003. His career includes several stints as guest scientist at Scripps Institution of Oceanography, La Jolla, CA, USA, at BMRC Melbourne, Australia, as well as at CIMAS/RSMAS, Miami, FL, USA. He is a member of the German as well as the American Meteorological Society, the German Association for the CLUB OF ROME and the Academy of Science in Hamburg. He has been appointed or elected to various positions on several working groups and committees including: Member of the CLIVAR WCCM (Working Group on Global Coupled Modelling) and contributing author of the IPCC Reports 2001 and 2007. He has also been a Member of the CAU Cluster of Excellence “The Future Ocean” since 2006.
Dr. McKinney received his doctorate from Texas A&M University in 1976. He is the Executive Director of the Harte Research Institute for Gulf of Mexico Studies at Texas A&M University Corpus Christi, leading an interdisciplinary team that integrates science, policy and socio-economic expertise to assure an economically and environmentally sustainable Gulf. Dr. McKinney chairs the Ecosystem Assessment and Integration Team of the Gulf Alliance, the Flower Gardens National Marine Sanctuary Advisory Committee, and the Texas Sea Grant Science Advisory Committee. He is a member of NASA’s SSC Applied Sciences Steering Committee and board member and past president of the Texas Academy of Sciences.

Prior to assuming his current position four years ago, Dr. McKinney directed environmental and marine fisheries programs at Texas Parks and Wildlife. He was a state trustee for natural resources and initiated the Natural Resource Damage Assessment (NRDA) program for the state of Texas. Under his guidance the program restored more than 10,000 acres of wetlands and one of the largest NRDA restorations (Lavaca Bay) was completed. He served as Chair of the EPA Science Advisory Committee for the Gulf of Mexico Program and directed oil spill response for TPWD. He also established over thirty marine protected areas of various types. He developed successful adaptive regulatory processes for coastal shrimp farms, management of invasive aquatic vegetation, and development of offshore aquaculture.

Elliott A. Norse is President of the Marine Conservation Institute, a nonprofit organization headquartered in Bellevue, Washington, dedicated to winning protection for ocean ecosystems in North America and worldwide. After earning his BS in Biology from Brooklyn College, he studied the geographical ecology of blue crabs (Callinectes spp.) in the Caribbean and the Tropical East Pacific for his PhD at University of Southern California and his Postdoctoral Fellowship at University of Iowa. He’s worked at the conservation science-policy interface since 1978 at the US Environmental Protection Agency, White House Council on Environmental Quality (where he reshaped conservation by defining biological diversity as its overarching goal), Ecological Society of America, Wilderness Society and Ocean Conservancy before founding Marine Conservation Institute in 1996.

His 150+ publications – nearly all focused on protected areas, spatial management and ecosystem impacts of fisheries – include 4 seminal books: Conserving Biological Diversity in Our National Forests (1986), Ancient Forests of the Pacific Northwest (1990), Global Marine Biological Diversity: A Strategy for Building Conservation into Decision Making (1993) and Marine Conservation Biology: The Science of Maintaining the Sea’s Biodiversity (2005). He is a Pew Fellow in Marine Conservation, was President of the Society for Conservation Biology’s Marine Section, won the Nancy Foster Award for Habitat Conservation from the National Marine Fisheries Service and was honored as Brooklyn College’s Distinguished Alumnus of 2008.
Michael K. Orbach is Professor of Marine Affairs and Policy and Director of the Coastal Environmental Management Program in the Nicholas School of the Environment at Duke University. He has worked as Social Anthropologist and Social Science Advisor with the National Oceanic and Atmospheric Administration; Associate Director of the Center for Coastal Marine Studies at the University of California at Santa Cruz; and Professor of Anthropology in the Department of Sociology and Anthropology at East Carolina University. He joined the Duke Marine Laboratory in 1993, and was Director of the Marine Laboratory from 1998 to 2006. Mike has performed research and has been involved in coastal and marine policy on all coasts of the US and in Mexico, Central America, the Caribbean, Southeast Asia, Europe, Alaska and the Pacific, and has published widely on social science and policy in coastal and marine environments. He was a formal advisor to both the U.S. Commission on Ocean Policy and the Pew Ocean Commission, has served on the Ocean Studies Board of the National Research Council, currently serves on the Board of Directors of the Ocean Conservancy, and has held numerous other appointments to Boards and Commissions, both public and private. His recent work involves comparison of the U.S. East Coast and the German North and Baltic Seas with respect to adaptation to sea level rise, and the development of Marine Managed Areas including current work on this topic in Portugal and the Azores.

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 comprise 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.
Manuel Pinto de Abreu is a Navy Officer (reserve) who served as a hydrographic engineer and on board of several ships. He pursued advanced studies in the Naval Postgraduate School, Monterey, CA, USA, where he obtained a Master’s degree followed by a PhD in “Physical Oceanography” in 1991. From 1992 to 1997, he was the Head of the Cartography and Hydrography Division of the Portuguese Hydrographic Institute. He lectured as a full professor at Naval School, the Institute of High Military Studies and was, from 2003 to 2008, Vice-rector of the Universidade Lusófona de Humanidades e Tecnologias (Lusophone University of Humanities and Technologies). From 2005 to 2010, he was the Head of the Task Group for the Extension of the Continental Shelf (EMEPC) and the following year the head of the Task Group for Maritime Affairs (EMAM).

During his professional career, Manuel Pinto de Abreu was involved with several international organizations and governmental bodies. He was member of several strategic commissions of the IHO (International Hydrographic Organization), the Portuguese High Level Focal Point on Integrated Maritime Policy of the EU, consultant of the inter-ministerial commission for the maritime spaces in Angola and consultant of the IMO (International Maritime organization). At the national level, he was the President of the Advisory Board of the Inter-ministerial Commission for the Delimitation of the Continental Shelf and member of the Oceans Strategic Commission.

Presently, Manuel Pinto de Abreu is the Secretary of State for the Sea of the Portuguese XIX Government.

Dr. Tiago Pitta e Cunha was born in Lisbon in March 1967. He received his degree in Law from the Universidade Católica Portuguesa (Catholic University of Portugal) in 1990 and his LLM (Legis Magister) in European and International Law from 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, a delegate to the 6th Committee of the UN General Assembly in 1998 and a Counselor 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. He has also initiated a private consultancy in maritime affairs and maritime business.
JOHN 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 US 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).

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

PROFESSOR DR. JEAN-PAUL RODRIGUE  
Department of Global Studies and Geography, Hofstra University, New York, NY, USA

Jean-Paul Rodrigue received a PhD in Transport Geography from the Université de Montréal (1994) and has been a professor at Hofstra University since 1999. Dr. Rodrigue’s research interests mainly cover the fields of transportation and economics as they relate to logistics and global freight distribution. Area interests involve North America, Latin America and the Caribbean, and East and Southeast Asia. Specific topics over which he has published extensively cover maritime transport systems and logistics, global supply chains and production networks, gateways and transport corridors. He has authored 3 books, 21 book chapters, more than 35 peer reviewed papers, numerous reports, and delivered more than 120 conferences and seminar presentations, mostly at the international level.

Dr. Rodrigue developed a widely used online reference source about transportation which became a textbook, The Geography of Transport Systems, now in its second edition. He is also on the international editorial board of the Journal of Transport Geography, the Journal of Transport and Land Use, acts as the Van Horne Researcher in Transportation and Logistics (University of Calgary) and is an associate member of the PortEconomics.eu initiative. He regularly performs advisory and consulting assignments for international organizations and corporations. Dr. Rodrigue is a member of the World Economic Forum’s Global Agenda Council on Advanced Manufacturing (2011 to 2012). He was recently commissioned by UN-HABITAT to write a chapter about urban freight distribution for the 2013 Global Report on Human Settlements mandated by the United Nations General Assembly.
Jeffrey D. Sachs is a world-renowned professor of economics, leader in sustainable development, senior UN advisor, bestselling author, and syndicated columnist whose monthly newspaper columns appear in more than 80 countries. Time magazine has twice named Professor Sachs among its 100 most influential world leaders; the Economist magazine recently ranked Sachs among the world’s three most influential living economists of the past decade.

At Columbia University, Sachs serves as Director of The Earth Institute, as well as Quetelet Professor of Sustainable Development and Health Policy and Management. He is Special Advisor to United Nations Secretary-General Ban Ki-moon on the Millennium Development Goals, having held the same position under former UN Secretary-General Kofi Annan. He is co-founder and Chief Strategist of Millennium Promise Alliance, and is director of the Millennium Villages Project. He has authored three New York Times bestsellers in the past seven years: The End of Poverty (2005), Common Wealth: Economics for a Crowded Planet (2008), and The Price of Civilization (2011).

Admiral Anne-François de Saint Salvy was Commander of the Atlantic maritime zone and Maritime Prefect for the Atlantic Ocean from August 2008 to December 2011. He was then in charge of maritime security, environment protection and police at sea.

He graduated from the French Naval Academy in 1976. Specialized in anti-submarine warfare, he served at sea from 1976 to 1989 on board of strategic submarine and various ASW combat surface ships and participated in many French Navy operations. After three years in the Navy General staff, he was appointed in 1994 as Deputy Chief of Staff Operations at the Naval Task Force before being in command of the aircraft carrier Foch during Kosovo operations.

As a high-ranking officer, he served as naval and maritime advisor in the military office of the Prime Minister from 2001 to 2003 before joining the Navy general staff as Deputy Chief of Staff Plans and Policy in March 2004. In August 2006, he was appointed as Executive Director of the Delegation for Strategic Affairs focusing on prospective and international defense relations.

He holds a master’s degree in engineering from the French Naval Academy, a degree in anti-submarine warfare, a certificate of atomist and superior certificate of nuclear safety. In 1991, he graduated from the Naval War College and the Superior Joint Military Course and from the Centre of Superior Military Studies as well as the Institute of Superior Studies for National Defense in 2001.
Peter Schlosser 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, Columbia University, and serves as Chair of the Earth Institute Faculty. He received a MS from the University of Heidelberg in 1981 and a PhD in 1985. Schlosser’s research focuses on water systems, primarily oceans and groundwater including problems caused by human impact. His ocean research focuses on 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 ocean, 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). He has served on a variety of national and international science steering and advisory committees. He is a Fellow of the American Geophysical Union, the American Association for the Advancement of Science, and the Explorers Club and presently serves as President of the Ocean Sciences Section of the American Geophysical Union.

Dietrich Seele studied Political Science, Philosophy and European ethnology at the Universities of Göttingen and Marburg.


Since 1 January 2008, he has been Expert on Integrated Maritime Policy in the Maritime Policy, Planning and Strategy Division of the Federal Ministry of Transport, Building and Urban Development, Germany.
Haitze Siemers has been working for the European Commission since 1993. His first postings were on EU-Japan relations, both in Brussels and in Tokyo. This was followed by a posting in trade policy at the time of the Seattle and Doha Ministerials of the WTO, during which he played a significant role in the development of the European Commission’s dialogue with civil society organisations in the context of Trade Policy. After a stint in the Commission’s consumer policy department, Mr. Siemers joined the Maritime Policy Task Force, as part of the core team developing the Green Paper and the Blue Book on an Integrated European Maritime Policy. In 2008, Mr. Siemers joined the team tasked with the implementation of EU Maritime Policy in the reorganised DG MARE. Mr. Siemers has a degree in Japanese studies which led to both academic and private sector work in and with Japan prior to his joining the European Commission.

Dr. Paul Snelgrove is a Professor in the Ocean Sciences Centre and Biology Department at Memorial University, where he holds the Canada Research Chair in Boreal and Cold Ocean Systems. He received a BSc Honours in Biology from Memorial University, an MSc in Oceanography from McGill University, and a PhD from Massachusetts Institute of Technology/Woods Hole Oceanographic Institution. He held postdoctoral fellowships at Rutgers University and Dalhousie University prior to accepting a faculty position at Memorial University.

Over the last 25 years, he has explored the seafloor with scuba, ships, submersibles and remotely operated vehicles to study the role of transport of larval fish and invertebrates in setting recruitment and biodiversity patterns in marine seafloor organisms. Through this research he has authored over 100 journal articles, book chapters and technical reports, and delivered over 25 invited talks in the last two years. He has also been quoted and or interviewed by BBC’s World Service and The Forum, National Public Radio, Al Jazeera television, The Los Angeles Times, The Globe and Mail, and Science and Discover magazines. He has served on numerous review panels in Canada, Europe and the U.S. and sits on the editorial boards of Marine Ecology Progress Series, Journal of Experimental Marine Biology and Ecology, Netherlands Journal of Sea Research, Endangered Species Research, and Marine Ecology.

He is Director of the NSERC Canadian Healthy Oceans Network working to develop new tools for sustainable oceans and recently led the synthesis of the International Census of Marine Life research program. He published the single author book “Discoveries of the Census of Marine Life: Making Ocean Life Count” with Cambridge University Press in 2010. He chairs the international effort to develop a follow-on program to the Census called Life in a Changing Ocean.
Lisa Speer directs the International Oceans Program at the Natural Resources Defense Council (NRDC), an environmental organization dedicated to protecting natural resources and public health with offices in the United States and China. Ms. Speer’s work currently focuses on conservation and management of marine biodiversity beyond national jurisdiction, and area known as the “high seas.” Comprising two thirds of the world’s oceans and 45% of the planet’s surface, this global commons faces an increasing array of poorly controlled human activities. Ms. Speer conducts advocacy in a variety of international fora to promote integrated, ecosystem based management of human activities on the high seas, with a particular focus on marine fisheries. She has served on US delegations to many high seas fisheries negotiations, and has testified before Congress and the United Nations on a variety of high seas management topics.

Ms. Speer’s other major focus is advocating for ecosystem based management in the marine Arctic. Ms. Speer currently serves on the U.S. National Academy of Sciences’ Committee on the Lessons and Legacies of the International Polar Year. She served on the Academies’ Board on Environmental Studies and Toxicology from 2001 to 2007. She has also served on NAS Committees on the Arctic and on marine environmental monitoring. She received her Master’s degree from Yale University and her Bachelor’s degree from Mount Holyoke College.

Acting on the nomination of Secretary-General Kofi Annan, the UN General Assembly in 2006 unanimously elected Achim Steiner as the Executive Director of UNEP for a four-year term. He became the fifth Executive Director in UNEP’s history and was re-elected in 2010 for another four-year term. Mr. Steiner also chairs two UN system wide entities: HLCP – High-level Committee on Programmes of the United Nations System Chief Executives Board for Coordination (CEB) and EMG – United Nations Environment Management Group. He serves on a number of international advisory boards, including the China Council for International Cooperation on Environment and Development (CCICED).

Before joining UNEP, Mr. Steiner served as Director General of the International Union for Conservation of Nature (IUCN) from 2001 to 2006. His professional career has included assignments with governmental, non-governmental and international organizations in different parts of the world. He worked both at grassroots level as well as at the highest levels of international policy-making to address the interface between environmental sustainability, social equity and economic development.

Mr. Steiner, a German and Brazilian national, was born in Brazil in 1961. His educational background includes a BA from the University of Oxford as well as an MA from the University of London with specialization in development economics, regional planning, and international development and environment policy.

Mr. Steiner is the recipient of a number of international awards and prizes including: 2010 Leadership Award for Principled Pragmatism – Tällberg Foundation; Shark Guardian of the Year 2008 – Shark Project; Schubert Preis – 2008 Bruno H. Schubert Stiftung; Steiger Award – Umwelt 2007. In 2009, His Serene Highness, Prince Albert of Monaco conferred upon Mr. Steiner the decoration of Officer of the Order of Saint Charles.
Jamie Sweeting is Vice President, Environmental Stewardship and Global Chief Environmental Officer for Royal Caribbean Cruises Ltd. Sweeting is responsible for establishing the company’s long-term environmental strategy and working to ensure responsible corporate environmental performance. Sweeting’s expertise guides Royal Caribbean Cruises Ltd.’s work to conserve and protect the environment.

Sweeting has over 20 years of experience in tourism, conservation and business management. Most recently, he served as senior business advisor and senior director of the Travel and Leisure program for Conservation International’s Center for Environmental Leadership in Business.

Sweeting received a Master of Tourism Administration from George Washington University in Washington, D.C., and a BA honors in Leisure and Business Management from Manchester University in England.

Professor Visbeck received his PhD from Kiel University in Physical Oceanography, was awarded a NOAA global and climate change postdoctoral fellowship at MIT, 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 2004, he has been holding the chair in Physical Oceanography at the Helmholtz Centre for Ocean Research Kiel (GEOMAR), Germany. Professor Visbeck’s current research is concerned with integrated marine sciences and in particular with ocean and climate variability and change with particular emphasis on the circulation of the Subpolar North Atlantic and Subtropical Oxygen Minimum Zones. For his research, he makes use of research vessel based expeditions but is increasingly using modern robotic platforms including profiling floats and gliders, and the development of ocean observatories for long-term observations. 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 ICSU transition team that is developing the new 10 year global change research project: FUTURE EARTH Research for Global Sustainability; and vice chair of the German National Committee for Global Change Research. He is speaker of the Kiel Research Cluster “The Future Ocean” supported by the German Excellence initiative.
Andrew Winbow is a Fellow of the Chartered Institute of Arbitrators (FCIArb). He was made Assistant Secretary-General of IMO in July 2010 and is now the Director of the Maritime Safety Division following 6 years as Director of the Administrative Division. Prior to 2006, he spent two years as Head of Policy and Planning in the Office of the Secretary-General. He commenced his career at IMO in 1998 as a Section Head in the Maritime Safety Division, where he co-ordinated IMO's work on all matters related to the implementation of the STCW Convention, the human element and the ISM Code.

Before joining IMO, Andrew worked for the UK Marine Safety Agency with responsibility for the UK implementation of the STCW Convention. During his 10 years with the Agency he held various other posts including Chief Surveyor with responsibility for Navigation and Communications.

His first career was at sea where he sailed as master on products tankers and also served on crude oil and gas carriers, container ships and cargo ships.

Sally is NOAA’s Director of Policy and Senior Advisor to the Under Secretary of Commerce for Ocean and Atmosphere. In that role, she oversees a team who develops and evaluates policies, strategies, budgets and long-range plans for the Administration’s initiatives as well as improvements to existing programs. In addition to overseeing the Policy Office, since joining NOAA in March 2010, she has also been leading NOAA’s policy efforts on Administration priorities such as National Ocean Policy, Marine Planning, Renewable Energy Development, and the South Florida Everglades Restoration. She also helps coordinate NOAA’s regional programs and supports the annual budget development and analysis by linking budget decisions to policy priorities.

Prior to coming to NOAA, Sally was the Director of Marine Conservation at The Nature Conservancy in the Eastern United States. In this job, she oversaw the development of an integrated, science-based marine ecological assessment of the northwest Atlantic Ocean. She was active in the development of policies relating to marine planning and regional ocean governance. For the past decade, she served as a member of the Stellwagen Bank National Marine Sanctuary Advisory Committee. Prior to this, Sally served in the private sector as Vice President for Program Development and Management at the Battelle Memorial Institute, a science and technology consulting firm. There, she was a senior manager for Battelle’s applied marine science group and also oversaw a team that focused on Everglades restoration activities in South Florida.

From 1994 to 2000, Sally served as the Deputy Assistant Secretary at NOAA. She was a leader on many initiatives including restoring the Everglades, fighting invasive species and harmful algal blooms, and protecting coral reefs. She also served as the Executive Director of the 1998 National Ocean Conference, which inspired the creation of two national ocean commissions and lead to the recent National Ocean Policy. For almost a decade, she worked in the Senate as an environmental advisor to Sen. John Kerry and also worked for the late Congressman Robert F. Drinan. Sally holds a Master’s in Public Administration from Harvard University’s Kennedy School of Government and a Bachelor’s in Political Science from the University of Vermont.
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