



# Science to Support Marine Protected Area Networks and Maritime Heritage

January 18-19, 2017

Fred W. Smith National Library for the Study of George Washington  
Mount Vernon, Virginia

To explore and define projects of joint interest on science and maritime heritage to support the management of marine protected areas (MPAs)



# AGENDA

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DAY 1 - Wednesday January 18, 2017

8:30 - *Registration & Coffee*

8:55 - Introduction to the Workshop

Lauren Wenzel, Director, NOAA Marine Protected Areas Center  
Pierre Michel, Science attaché, Embassy of France in the United States

9:00 - Welcome

Dr. Douglas Bradburn, Founding Director of the Washington Library  
Nicole Le Boeuf, Deputy Assistant Administrator for NOAA's National Ocean Service  
Serge Segura, French ambassador of the Oceans

9:15 - Set the stage and objectives of the workshop

Françoise Gaiil, Scientific Committee Coordinator of the Ocean & Climate Platform  
John Armor, Director of NOAA's Office of National Marine Sanctuaries

9:40 - Panel discussion I: Science supporting MPA management

Objective: Understand how science informs MPA design and management in the U.S. and France

Discussion topics:

- Climate change, vulnerability and adaptation
- Sentinel sites
- Connectivity, building MPA networks
- Exploration

Facilitator:

Donald Boesch, Director, University of Maryland Center for Environmental Science

Panelists:

Mitchell Tartt, Chief, Conservation Science Division, NOAA Office of National Marine Sanctuaries  
Françoise Gaiil, Scientific Committee Coordinator of the Ocean & Climate Platform  
Alan Leonardi, Director, NOAA Office of Ocean Exploration and Research  
Nadine Lebris, Director, Benthic Ecogeochemistry Laboratory, joint research unit CNRS-UPMC, Banyuls Marine Station  
Guigone Camus, Ph.D in ethnology and anthropology at EHESS

11:00 - *Break*

11:20 - Panel discussion II: Taking an interdisciplinary approach to MPA management

Objective: Understand how social, economic and legal information and tools inform MPA design and management in the U.S. and France.

Discussion topics:

- Linking cultural and ecological conservation objectives of MPAs
- Managerial, economic, social challenges
- Shared maritime history of US and France

Facilitator:

Catherine Marzin, Climate Team lead, NOAA, Office of National Marine Sanctuaries

Panelists:

Marie-Aude Sevin, Project leader for International agreements and partnerships, French Biodiversity Agency

Lauren Wenzel, Director, NOAA Marine Protected Areas Center,

Ben Haskell, Acting Superintendent, Stellwagen Bank National Marine Sanctuary

Denis Bailly, Economics lecturer, Centre for the law and economics of the Sea, Université de Bretagne Occidentale

Bleuenn Guilloux, Jurist, Centre for the law and economics of the Sea, Université de Bretagne Occidentale

12:40 - *Lunch*

Case Study: International Collaboration with Spain on Maritime Heritage: James Goold, Attorney Covington & Burling LLP

14:00 - Presentation from the field I - Atlantic & Caribbean areas

Speaker:

Ben Haskell, Acting Superintendent, Stellwagen Bank National Marine Sanctuary

Romain Renoux, Saint-Martin National Reserve representative, Agoa Marine Sanctuary

14:20 - Breakout sessions: Identifying areas of mutual interest and potential collaboration

Marine Protected Areas

Facilitator:

Christophe Lefebvre, Responsible for International Affairs - Advisor for Ocean, French Biodiversity Agency

Lauren Wenzel, Director, NOAA Marine Protected Areas Center

*Rapporteur: Gonzalo Cid*

Maritime Heritage

Facilitator:

Damien Leloup, Maritime Archaeologist researcher

James P. Delgado, Director, Maritime Heritage Program, NOAA Office of National Marine Sanctuaries

*Rapporteur: Pierre Michel*

Potential areas of collaboration (draft list):

- Sister sites
- Exploration and telepresence
- Climate change adaptation
- Ocean noise
- Exchange among scientists
- Education

16:00 - *Break*

16:20 - Presentation from the field II - Pacific

Speaker:

Tara Expedition live from the Pacific

16:40 - Report back from each group rapporteur & general discussions on outcomes of the break-out sessions

17:45 - End of discussion

Participants are invited to go to the Mt Vernon Inn for the reception and Keynote  
(Note: we recommend you do not leave any valuables overnight)

18:00 – *Reception sponsored by Pernod Ricard USA*

Welcoming remarks:

Patricia Ricard, President, Paul Ricard Oceanography Institute



18:30 - Signing ceremony

Signatories:

**Michel L'Hour**, General Curator for underwater heritage, Director of the France's Underwater Archaeology Researches Department

John Armor, Director of NOAA's Office of National Marine Sanctuaries

18:40 - Keynote:

James P. Delgado, Director, Maritime Heritage Program, NOAA Office of National Marine Sanctuaries

*'Connected by the Sea – The Shared Maritime Heritage of the U.S. and France'*

DAY 2 - Thursday January 19, 2017

8:30 - *Coffee*

9:00 - National Marine Sanctuaries Foundation and Paul Ricard Oceanography Institute: supporting new initiatives

**Kristen Sarri**, President and Chief Executive Officer, National Marine Sanctuaries Foundation  
Patricia Ricard, President, Paul Ricard Oceanography Institute

9:30 – Plenary discussion III: Implementing our international partnership

Discussion topics:

- Project priorities
- Bilateral/multilateral partnership opportunities
- Legal frameworks
- Funding options
- Leveraging existing programs and assets
- Grant funding opportunities

Facilitator:

Gonzalo Cid, International Activities coordinator

Panelists:

Lisa Phelps, Office of Ocean and Polar Affairs at U.S. Department of State

Pierre Michel, Science attaché, Embassy of France in the United States

Terry Schaefer, Program Analyst, NOAA Office of Atmospheric and Oceanic Research, International Activities

Sandrine Pivard, Director of Regional Activity Center for the SPAW Protocol

10:50 - *Break*

11:10 - Next Steps: Plenary discussion IV or Breakout session continue (All participants)

Discussion topics: Facilitated discussion to identify projects, draft concepts for joint program plan and designate lead for each topics, create a steering committee.

Facilitator:

Lauren Wenzel, Director, NOAA National Marine Protected Areas Center

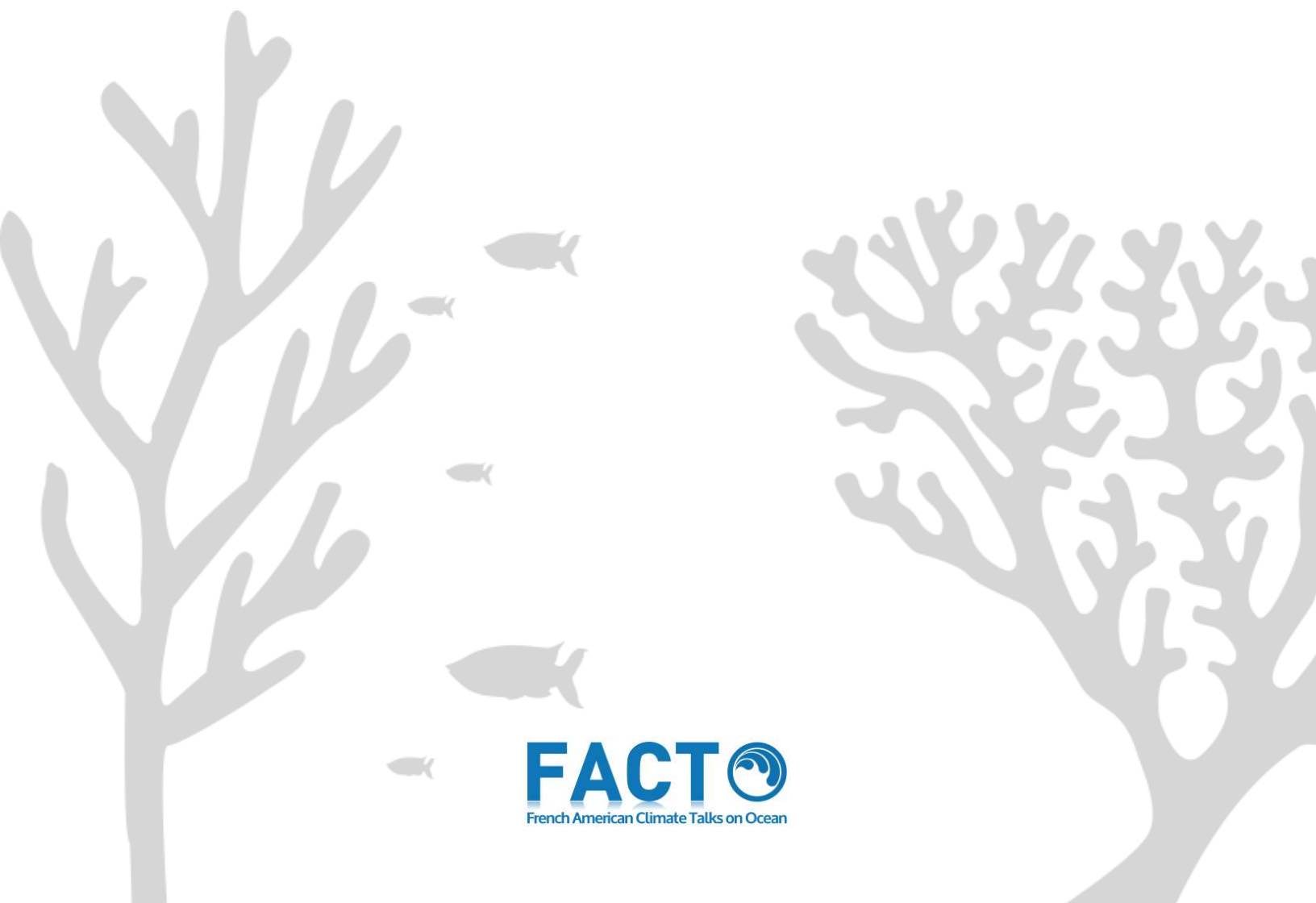
12:20 - Concluding remarks

Françoise Gaill, Scientific Committee Coordinator of the Ocean & Climate Platform  
John Armor, Director, NOAA Office of National Marine Sanctuaries

12:45 - *Lunch*

14:00 - Tour of Mount Vernon – Exploring French and US historical ties

16:00 - Adjourn



## PANELIST BIOGRAPHIES

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### John Armor

Director, Office of National Marine Sanctuaries



John Armor is the Director of NOAA's Office of National Marine Sanctuaries (ONMS), our nation's system of underwater parks. In this capacity, he provides strategic vision for the program and overall policy direction. Mr. Armor has been with NOAA since 2000, serving as the ONMS national permitting coordinator, chief of the Conservation Policy and Planning Division, and deputy director overseeing personnel, policy and administrative matters for the program. Prior to coming to NOAA, Mr. Armor worked for the Florida Department of Environmental Protection in the Fort Myers regional office. There, he worked to implement the State of Florida's wetland and estuarine protection and sovereign submerged lands programs. Mr. Armor is a native of Portsmouth, Rhode Island, along the shores of Narragansett Bay where his passion for protecting special ocean places was born. He has a Bachelor of Science degree in Marine Science from the University of South Carolina, and a Master of Science degree in environmental science and policy from Johns Hopkins University. He is also a graduate of NOAA's Leadership Competencies Development Program. Mr. Armor lives in Columbia, Maryland, with his wife Trish, and their three children Ian, Collin and Katelyn.

### Denis Bailly

Economics lecturer, Centre for the law and economics of the Sea, Université de Bretagne Occidentale



Denis is senior lecturer in economics at the Université de Bretagne Occidentale (UBO), in Brest, Brittany, and deputy director of AMURE, Center for Law and Economics of the Sea. After an MSc in marine social sciences at the University of Kagoshima, Japan, he got his PhD in economics at the university of Rennes in 1994. Before joining UBO, he worked at the Marine Economics Department of IFREMER. His main areas of research are aquaculture development, integrated coastal zone management, marine conservation and ecosystem services assessment. He is presently co-coordinating the economic expertise for the French Evaluation of Ecosystems and Ecosystem Services (EFESE) and for the updating of the assessment for the second cycle of implementation of the EU Marine Strategy Framework Directive.

## Donald Boesch

Director, University of Maryland Center for Environmental Science



Donald F. Boesch is a Professor of Marine Science and President of the University of Maryland Center for Environmental Science and University System of Maryland's Vice Chancellor for Environmental Sustainability. He earned his B.S. in biology at Tulane University and Ph.D. in oceanography at the College of William and Mary. Don has conducted research on coastal and continental shelf ecosystems along the Atlantic Coast, and in the Gulf of Mexico, eastern Australia, and the East China Sea. He serves as a member of the Maryland Governor's Bay Cabinet and was appointed by President Obama to the Gulf Oil Spill Commission. In recent years, Don has been engaged in assessing the impacts of global climate change, co-authoring several reports for the state, federal government and National Academy of Sciences, including Global Warming and the Free State, Global Climate Change in the United States, and America's Climate Choices. Earlier this year, he led a panel of scientists that updated sea-level rise projections for Maryland at the request of Governor O'Malley. Don also leads a program called MADE CLEAR to advance climate change education throughout Maryland and Delaware

## Guigone Camus

Ph.D in ethnology and anthropology at EHESS



Guigone Camus is an ethnologist whose work is dedicated to the society of KIRIBATI, an archipelago of 33 coral atolls located in the Central Pacific Ocean. On the basis of a primary knowledge of the articulation between cosmogony and social structure, she works on issues related to climate change in these low-lying islands environment.

## Gonzalo Cid

International activities coordinator in NOAA's National Marine Protected Areas Center at the Office of National Marine Sanctuaries



Dr. Gonzalo Cid serves as coordinator for international activities in NOAA's National Marine Protected Areas Center at the Office of National Marine Sanctuaries. Previously, he served as senior program coordinator for the Office of International Affairs of NOAA-National Ocean Service. Gonzalo has worked for NOAA since 2002 on international issues concerning marine protected areas (MPAs), land-based marine pollution, marine spatial planning, capacity building, bilateral partnerships, and multilateral environmental/marine agreements. A native of Chile, Gonzalo holds BS and MS degrees in marine biology and oceanography from the University of Concepcion and a PhD in marine policy and coastal management from the University of Delaware. Before joining NOAA, he worked as an academic research assistant and a coordinator for UN-based projects.



## James P. Delgado

### Director, Maritime Heritage Program, NOAA Office of National Marine Sanctuaries



Currently Director of Maritime Heritage in the Office of National Marine Sanctuaries for the National Oceanic & Atmospheric Administration in the United States, Dr. Delgado oversees heritage programs and active research in the nation's waters, as well as outreach and education on America's underwater and marine heritage. Previously, he served a four-year term as President and CEO of the Institute of Nautical Archaeology, the world's leading scientific and educational organization dedicated to the understanding of humanity's seafaring history through the excavation and scientific study of shipwrecks. Before that, he was the Executive Director of the Vancouver Maritime Museum in British Columbia, Canada for fifteen years, and before that the maritime historian for the U.S. National Park Service. An accredited journalist, he has written for major newspapers, and was the host of the National Geographic International television series *The Sea Hunters*. The show appeared in 174 international jurisdictions. He is the author of more than 34 books and numerous articles in scholarly and popular journals.

## Françoise Gaill

### Scientific Committee Coordinator of the Ocean & Climate Platform



Dr. Françoise Gaill is currently the Scientific Committee Coordinator of the Ocean & Climate Platform and Scientific Advisor for the Ecology and Environment Institute (INEE) of the French National Center for Scientific Research (CNRS). Françoise has been involved in the field of marine biology, with a specific interest in the thermal adaptation of deep-sea animals. She is the author of more than 170 scientific publications. She was in charge of foreign affairs at CNRS' life sciences department and also served for several years as Director of the CNRS Institute of Ecology and Environment.

## James Goold

### Attorney Covington & Burling LLP



James Goold is resident in Covington & Burling LLP Washington, DC office. His practice spans a wide range of U.S. and European litigation and arbitration, including insurance coverage for policyholders on environmental, product liability, mass tort and catastrophe claims; energy industry and other commercial disputes; mass tort product liability defense; and representations of European governments concerning sovereign immunity and other claims against military, historic and cultural properties in the U.S. and Europe.

## Bleuenn Guilloux

Jurist, Centre for the law and economics of the Sea, Université de Bretagne Occidentale



Lawyer specialised in Marine Biodiversity and Scientific Research issues, Bleuenn Guilloux is Teaching Assistant and Research Associate (AMURE) at the Centre for the Law and Economics of the Sea (University of Western Brittany, France). She is also a core member of Youth for Ocean (YO!), an Interdisciplinary and International Group of Young Scientists created within the French Ameri-Can Climate Talks (FACTS) framework, promoting the interrelations between Ocean and Climate. After working inter alia for the Coral Reef Initiatives for the Pacific (CRISP) and taking additional internships in Life Sciences and Technology (CNRS, IFREMER, MNHN), she completed a PhD on “Marine Genetic Resources, R&D and Law” at the Maritime and Oceanic Law Centre (University of Nantes, France), awarded by the Paris Universities Chancellery (Mariani/Aguirre-Basualdo Prize 2016 in Law of the Sea).

## Benjamin Haskell

Acting Superintendent, Stellwagen Bank National Marine Sanctuary



Ben has been with NOAA for 24 years working to protect special ocean places such as the Florida Keys and Stellwagen Bank sanctuaries. He currently serves as the Acting Superintendent for the Stellwagen Bank sanctuary located in Scituate, a small coastal port located one hour south of Boston, Massachusetts. In this capacity he oversees sanctuary policies and planning, facilities management, and diverse projects including biodiversity conservation, marine mammal research, seafloor habitat studies, use assessments and maritime archaeology. Prior to coming to the Stellwagen Bank sanctuary, he served as the science coordinator for the Florida Keys National Marine Sanctuary from 1995 to 2000 where he played a pivotal role in the establishment of the Tortugas Ecological Reserve, then the Nation’s largest no-take marine reserve. Prior to coming to NOAA, he worked at a variety of marine labs on the East Coast and received his M.Sc. from the University of Maryland in 1997.

## Nicole LeBoeuf

Deputy Assistant Administrator NOAA’s National Ocean Service



Nicole LeBoeuf has nearly 20 years of scientific expertise and program management experience, with emphasis on the connections between science and policy. Currently, she is the deputy assistant administrator at NOAA’s National Ocean Service. In this role, she oversees the financial, administrative, and performance activities of an agency that includes more than 1,700 staff members located across more than 50 places around the country. Previously, she served as acting deputy director of the Office of Protected Resources in NOAA Fisheries, where she maintained oversight of a diverse protected species conservation and management portfolio. Before that, she spent four years as the chief of the Marine Mammal and Sea Turtle Conservation Division in the Office of Protected Resources. Her work included oversight of budget formulation and execution, personnel, public process, policy

analysis, and synthesis and application of scientific information in the service of implementing the Marine Mammal Protection Act and the Endangered Species Act. Prior to working at the Office of Protected Resources, Nicole spent almost a year as the acting deputy director for the National Centers for Coastal Ocean Science in NOAA's National Ocean Service. There, she managed day-to-day financial and personnel operations that included five laboratories and a wide portfolio of intramural and extramural research activities. Nicole also spent time in NOAA Headquarters, both in the NOAA Budget Office and as NOAA's finance lead during the Deepwater Horizon oil spill. Before completing NOAA's Leadership Competencies Development Program in 2009, Nicole served as an international fisheries biologist in the Office of International Affairs at NOAA Fisheries and as the special assistant for NOAA Fisheries science director, during which time she represented NOAA at the U.N. General Assembly and the World Conservation Union regarding the protection of deep sea corals. Nicole completed a BS in marine biology from Texas A&M University and an MS in sustainable development and conservation biology from the University of Maryland.

## Nadine Lebris ■ ■

Director, Benthic Ecogeochemistry Laboratory, joint research unit CNRS-UPMC,  
Banyuls Marine Station



Nadine Le Bris is Professor of the University Pierre et Marie Curie - Paris 6. She is the head of the Benthic Ecogeochemistry Laboratory, a joint CNRS – UPMC research group (UMR8222) at the Marine Station of Banyuls. She is currently co-chair of the Marine working group of the French Alliance for Environmental Research (ALLENVI), in which she represents the CNRS Institute of Ecology and Environment. Her scientific expertise lies at the interface of marine ecology and environmental sciences, with a primary focus on deep-sea biodiversity and productivity hotspots, such as submarine canyons, hydrothermal vents and methane seeps. She participated

to 18 deep-sea research cruises with manned submersibles and ROVs. Since 2009, she has been coordinator of the chair 'Extreme marine environments, biodiversity and global change'. This research and training program first aims at encouraging the next-generation of marine ecologists to develop innovative in situ interdisciplinary approaches in deep-sea ecology. Another main objective is to enhance public awareness about vulnerable key-ecosystems of the ocean floor and their links with the global ocean-and-climate system. Engaging first grade students in outreach activities, introducing them to the scientific and societal challenges of this research field, is central to this goal. She is an active as member of the Ocean and Climate Platform scientific committee and steering committee, where she represents the Deep Ocean Stewardship Initiative international network (DOSI). Since 2015, she has been the co-chair of new Working Group of DOSI dedicated to climate change impacts. Over the last 16 years, she involved herself in several international initiatives dedicated to 'Investigating life in extreme environments' as member of the steering or scientific committees of a EC Coordination and Support Action, to the 'Biogeochemical interactions at deep-sea vents' & 'Hydrothermal energy transfer and the ocean carbon cycle' as chair of InterRidge and SCOR working groups and, more recently, as member of the Group of Expert and chapter lead author of the World Ocean Assessment-I.

## Christophe Lefèbvre ■ ■

### Responsible for International Affairs - Advisor for Ocean, French Biodiversity Agency



Christophe Lefebvre is active for more than thirty years in the field of nature conservation at national, European and international levels. He first worked at the Coastal Conservancy in France and is currently head of International Affairs at the French Biodiversity Agency. He chaired the IUCN National Committee ten years and also the National Committee for the Protection of Nature at the French Ministry of Environment during five years. He actively contributed to the establishment of the National strategy for the sustainable development (2003) and to the establishment of the National Biodiversity Strategy (2005). At international level, he was elected as IUCN West European Councilor at the WCC in 2008 and was designated by the Council as his first Ocean Councilor. In the same time, he was expert for the Ramsar Convention, in the framework of the Ramsar Programme sponsored by the Danone Evian Fund that he initiated in 1998. Currently, he is working closely with the Secretariat of the Convention on Biological Diversity on the Sustainable Ocean Initiative action Plan. He is also representing IUCN at the International Jury of the Blue Flag (FEE) since 2010. Christophe Lefebvre has chaired many important international and regional meetings and conferences. He is used to work across cultures, as it is currently the case within the marine protected areas Agency Partnership, which gathers different governmental bodies from all continents. In the past, he initiated and organized many Eurosite workshops dedicated to the management of protected areas in Europe, gathering NGOs and Public practitioners. In 2013, he organized with the IUCN Global Marine and Polar Programme the third International Marine protected Areas Congress (IMPAC3) in Marseille. He is active in protected areas networking, such as the Monaco Blue Initiative. He is involved in international networks activities, such as MEDPAN or EUROSITE. He chaired the scientific committee of the National Park of Diawling (Mauritania).

## Damien Leloup ■ ■

### Maritime Archaeologist researcher



Damien Leloup is a French explorer, trained Maritime Archaeologist, writer and museum curator. Damien began his career as a diver and field logistician for Jacques Cousteau in Vietnam, South Africa, and Namibia on board Calypso and Alcyone. Afterwards, to fulfill French military service requirements, he was sent to Reunion Island with the French Navy, where he helped supervise maritime activities and dive training at a Commando Training Unit camp. He then went on to help the Madagascar Government in partnership with the World Wildlife Fund, to transform one of the last remaining first growth rainforest into a National Park. In 2006, Damien was asked to envision, build and direct a paleontological museum, which was to become China's first green museum. By 2008, the Liaoning Fossil & Geology Park opened its doors, and within a few years the museum was welcoming thousands of visitors, students & scientists from all over the world. Always eager to explore uncharted territory, in 2013, Damien also led an Explorers Club flag expedition to a river site outside of Jingdezhen, China, where hundreds of ancient Song dynasty porcelain specimens lay untouched below the water for a thousand years. In 2015 and 2016, Damien created and Co-Directed the Scripps Center for Marine Archaeology (SCMA) at UC San Diego with Professor Walter Munk, and is now finishing his PhD focusing on 4 distinct maritime archaeological sites around the world. Last year Damien was elected on the Board of Directors of The Explorers Club, and for the COP22 he was asked

to co-author a paper on Climate Change with an emphasis on maritime archaeology, lead by the Committee to Prevent Extreme Climate Change.

## **Michel l'Hour** ■ ■

General Curator for underwater heritage, Director of the France's Underwater Archaeology Researches Department



General curator for underwater archaeology, Academician of Marine, Michel L'Hour is since 2006, Director of the Department of Underwater Archaeological Research (DRASSM) of the Ministry of Culture. He has joined Drassm in 1982, where he was responsible for the western coasts of France, the overseas territories and international relations. He has directed numerous major archaeological underwater excavations both in France and abroad and is specializes in the history of maritime trade from the late Middle Ages to the dawn of the modern era. Expert regularly sought by many international organisations such as UNESCO, he is the author of numerous articles and books on the subject. He also curated major exhibitions such as the sea for memory from 2005 to 2009, or The Mystery of Lapérouse, in the National Maritime Museum in 2008.

## **Alan P. Leonardi, Ph.D.** 🇺🇸

Director, NOAA Office of Ocean Exploration & Research



Alan Leonardi is responsible for providing direction to NOAA and the U.S. Department of Commerce in the field of ocean exploration, research, and advanced technology development. A key element in the Office of Ocean Exploration and Research's portfolio is the expeditionary exploration activities, which combine the NOAA ship Okeanos Explorer and high-speed networks and infrastructure for live communications to scientists and other audiences ashore. A meteorologist and oceanographer, Leonardi has been with NOAA since 2003. Previous roles include Program Manager for NOAA's Environmental Modeling Program; Deputy Director of Policy, Planning, and Evaluation within NOAA's Office of Oceanic and Atmospheric Research; and Deputy Director of NOAA's Atlantic Oceanographic and Meteorological Laboratory.



## Catherine G. Marzin

### Climate Team lead, NOAA, Office of National Marine Sanctuaries



As Climate Team Lead for NOAA's Office of National Marine Sanctuaries, Catherine Marzin guides efforts to integrate climate change issues into the management of national marine sanctuaries. She focuses on 1) ensuring the system has the scientific information it needs to understand resource vulnerability to climate change, 2) ensuring that each site develops adaptation strategies to address effects of climate change and lessen vulnerabilities, and 3) developing effective communication strategies to engage the public on being resilient to climate change. She has overseen research projects straddling marine ecology and history, such

as efforts to map the biology of recently discovered deep sea shipwrecks in the Gulf of Mexico, and to estimate past abundance and biodiversity in sanctuaries from mining historical records. Catherine started her career as a Knauss Sea Grant Fellow at the Oceanographer of the Navy in 1996. Prior to joining the Office of National Marine Sanctuaries, she worked in NOAA's Office of Policy and Strategic Planning, was NESDIS liaison at the Program Coordination Office in NOAA headquarters, and was French and European Desk officer at NOAA's NESDIS Office of International Affairs. Catherine received the Diplôme d'Ingénieur Agronome/Ingénieur Halieute from the Ecole Nationale Supérieure Agronomique de Rennes in France (1992) and a Masters of Marine Affairs from the University of Washington in Seattle, WA (1996).

## Pierre Michel

### Attaché for science & technology (Environment and sustainable development), Embassy of France in the USA



Pierre Michel joined the Office for Science and Technology of the French Embassy in Washington in September, 2013 as Scientific Attaché specializing in Environment and sustainable development. His office is currently based in the Embassy of France in Washington, DC. Before joining the Embassy of France, Pierre Michel was Director of Higher Education, Research and Innovation at the Rhône-Alpes Regional Council. The missions of this direction encompasses elaboration of regional policies and financial support to universities, research institutions and SME's . Previously, he has been working for the French Ministry of Higher

Education, and Research as regional director of science and technology in Provence **Alpes Cote d'Azur (2008-2012)**. From 2000 until 2008, Pierre Michel worked for the French Ministry of Foreign Affairs as scientific attaché in Boston (Ma) and Warsaw (Poland). In Boston, he set up several programs to develop French-American cooperation in the field of technology transfer and innovation, involving universities and start-ups on both sides of the Atlantic. In Warsaw, he was in charge of the French-Polish cooperation in the field of life sciences and environment. Pierre Michel graduated from Institut National des Sciences Appliquées (INSA LYON) in the field of energy and chemical engineering. He started his engineering career in various companies (Serete, Ecopol, CEA, Total) in the field of system reliability, industrial risks and environment management to reduce environmental impact of industrial plants. He then moved to the public sector and was hired by the Lyon Chamber of Commerce and Industry during ten years to develop new services for innovative SME's.

## Patricia Ricard

President, Paul Ricard Oceanography Institute



Patricia Ricard has for more than 30 years been actively engaged in the protection of the environment. In 1991, with the journalist M.P. Cabello, she launched the Mardis de l'Environnement (Tuesday Environment Meetings), a cycle of lectures and a forum for discussions between experts and environment stakeholders, that she has been chairing and running since. She is a member of the Boards of Administration of a range of government and non-profit organisations: Terres Australes et Antarctiques Françaises (French Southern and Antarctic Lands), Parcs Nationaux de France (French National Parks Authority), WWF and others. She has also worked in the media, participating in TV and radio programmes. From 2010 to 2015, she was an appointed member of the Conseil Economique Social et Environnemental (French Economic, Social and Environmental Council) as a person especially as a representative in matters regarding the environment. She produced wrote a national report on biomimicry. Since 2015, she has been a member of the Steering Committee of the Ocean & Climate Platform. She took action in COP21 and COP22. In June 2016, she launched a new programme: Take OFF, Take Ocean For Future. She has been President of the Institut océanographique Paul Ricard since 2005.

## Kristen Sarri

President and Chief Executive Officer, National Marine Sanctuaries Foundation



As President, Kris plans to build on the Foundation's strong history of collaboration to ensure that the ocean and Great Lakes remain healthy for future generations. Kris joins NMSF from the Department of the Interior, where she served as Principal Deputy Assistant Secretary for Policy, Management and Budget since 2014. Leading the Office of Policy, Management and Budget, she was responsible for cross-cutting management and operations issues that directly impact the Department's ability to fulfill its mission. Her policy work at the Department included Native Hawaiian relations; oceans and coasts issues; economic evaluations of public lands, Interior services and the outdoor economy; combating invasive species; and trade and tourism. Prior to joining the Department of the Interior, Kris was the Associate Director for Legislative Affairs for the Office of Management and Budget. She also served as Deputy Director of Policy and Strategic Planning, US Department of Commerce where she was the Secretary's principal advisor on oceans, fisheries, climate and energy issues, and policy liaison for the National Oceanic and Atmospheric Administration (NOAA). Kris also spent eight years in the U.S. Senate on the Professional Staff of the Senate Commerce Committee with responsibility for the Oceans, Atmosphere, Fisheries and Coast Guard Subcommittee; Senior Policy Advisor of the Office of Senator Jack Reed; and Legislative Director, Northeast-Midwest Senate Coalition. Kris received a B.A. in Biology from Washington University, St. Louis and an M.S. and M.P.H. from the University of Michigan. She is an avid SCUBA diver.

## Terry Schaefer

Program Manager in the International Activities Office of the Office of Oceanic and Atmospheric Research (OAR)



Terry Schaefer is a Program Manager in the International Activities Office of the Office of Oceanic and Atmospheric Research (OAR), National Oceanic and Atmospheric Administration (NOAA). He is the primary staff lead for the US Co-chair for the Galway Statement on Atlantic Ocean Cooperation between the US, Canada and the European Union. In this role, Dr. Schaefer oversees the implementation of activities in support of the Galway Statement on Atlantic Ocean Cooperation. Dr. Schaefer also develops and manages NOAA international research cooperation with France, United Kingdom and the Republic of Korea. He also provides staff support to the U.S. Permanent Representative to the Intergovernmental Oceanographic Commission of UNESCO. From 2004 through 2006, Dr. Schaefer served as the Executive Director for the NOAA Research Council. From 2001 through 2003, he worked as a Program Officer for the Ocean Studies Board of the National Academy of Sciences where he directed studies resulting in four publications: Science and Its Role in the National Marine Fisheries Service, Cooperative Research in the National Marine Fisheries Service, Elements of a Science Plan for the North Pacific Research Board, Geospatial Framework for the Coastal Zone - National Needs for Coastal Mapping and Charting. Dr. Schaefer received his Ph.D. in Oceanography and Coastal Sciences from Louisiana State University in 2001 and a MSc in Biology/Coastal Zone Studies from the University of West Florida in 1996. During his doctoral studies, Dr. Schaefer served as a John A. Knauss Marine Policy Fellow in the NOAA Office of the Chief Scientist (1998-1999).

## Serge Ségura

Ambassador in charge of the oceans



Born in 1955, Mr Ségura is graduated in Law in the University of Aix en Provence and in Political Sciences in the Institut d'Etudes politiques de Paris. He began his career in the ministry of foreign affairs in 1980, where he occupied diverse positions in French Embassies in Angola, Spain, Albania, Slovenia, Madagascar and Sweden. From 2012 to 2015 he was Ambassador in Mozambique. Mr Ségura dedicated also his stays in the Ministry in Paris to specialize in law of the sea and polar subjects in the Legal directory of the Ministry. In particular, he was deputy director of that department for law of the sea, rivers and polar subjects from 2007 to 2012. Since September 2015, he has been appointed as Ambassador in charge of the oceans in the Ministry of foreign affairs. Mr Ségura is the first Ambassador for the oceans, that position having been created in 2015.



## Marie-Aude Sévin

Project leader for International agreements and partnerships - French Biodiversity Agency



Marie-Aude has been working on marine environment issues since 2009, starting in the West Coast in Madagascar where she worked on the field with local communities and dived on MPAs for the Blue Ventures NGO. The, her experience at the French Marine protected areas agency on the French MPA policies or as manager for the 3rd International Marine Protected Areas Congress (IMPAC3) let us be aware and understand the main international and regional objectives for protecting marine environment, but also the gap between the global objectives and the field's realities. Currently, at the French Biodiversity Agency, she's working on MPA and climate change, cooperation with others countries and international institutions as the IUCN, the UNESCO and the MPA networks. In addition, she was elected in December 2016 for 3 years Chair of the sea and costal working group of the Protected Area Commission at the French committee of the IUCN.

## Lauren Wenzel

Director, NOAA Marine Protected Areas Center,



Lauren is Director of the U.S. National Marine Protected Areas Center within NOAA's Office of National Marine Sanctuaries. Her work focuses on connecting and strengthening the marine and coastal protected area programs in the United States and internationally through capacity building, information and tools, and communication and engaging stakeholders. Lauren's focus is on building partnerships among federal, state and tribal marine and coastal programs and stakeholders to demonstrate and communicate the value of protecting the ocean's most important places. Lauren has been with the MPA Center since 2004. Before that, she worked to develop and implement Chesapeake Bay watershed plans to reduce nutrient pollution and on Smart Growth practices to foster more liveable and environmentally sustainable communities at the Maryland Department of Natural Resources. She received her M.S. from the University of Michigan in Natural Resources Management, and her B.A. from Oberlin College.

