

UPDATED PROGRAM**NRDA FOR THE GULF:**

Improving Our Ability to Quantify Chronic Damages

Symposium Updated Program

As Natural Resource Damage Assessment (NRDA) from the Deepwater Horizon oil spill continues, scientists are increasingly committed to quantifying long-term effects. Independent research programs, utilizing sensitive and proven scientific methods, are collecting data that will improve our ability to show causality and reduce uncertainty when quantifying damage in the Gulf of Mexico.

Join the Conversation

You are invited to join scientists, researchers, NGOs, policy makers, and government leaders at the National Aquarium, Baltimore, where professionals across the spectrum will gather to *hear the latest research outcomes* and *discuss approaches* that will help *redefine standards* for future NRDA practice and implementation.

WEDNESDAY, NOVEMBER 2**6:30 p.m.**

Evening Welcome Reception

NATIONAL AQUARIUM HARBOR OVERLOOK

THURSDAY, NOVEMBER 3**7:15–8:15 a.m.**

Continental Breakfast

8:30 a.m.

Welcome

John C. Racanelli

CHIEF EXECUTIVE OFFICER
NATIONAL AQUARIUM

Keynote Introduction

Michael J. Batza, Jr.

CHAIR, NATIONAL AQUARIUM CONSERVATION CENTER BOARD

Keynote Speaker

The Honorable Benjamin L. Cardin

UNITED STATES SENATOR FROM MARYLAND

Setting the Stage

Erik Rifkin, PhD

INTERIM EXECUTIVE DIRECTOR
NATIONAL AQUARIUM CONSERVATION CENTER

Opening Address (SPEAKER TBA)

**KEYNOTE SPEAKER**

Senator Ben Cardin

A national leader on the environment since coming to Congress in 1987, Ben Cardin was elected to the U.S. Senate in 2006. He serves on the Environment and Public Works (EPW)

Committee, and in the 112th Congress, chairs the Water and Wildlife Subcommittee of EPW and the International Environmental Protection Subcommittee of the Foreign Relations Committee.

Senator Cardin has seen first-hand the devastating environmental and economic impacts of the BP Deepwater Horizon oil spill. In June, his subcommittee reviewed the status of the BP Deepwater Horizon Oil Spill Natural Resource Damage Assessment (NRDA) including an examination of research findings to date and the successes and shortcomings of the NRDA process.

"We cannot undo the damage that has been done. But through the natural resource damage assessment and subsequent restoration efforts, we can employ best practices to minimize impacts and ensure an effective, thorough restoration," said Senator Cardin.

"We will do everything in our power to ensure that this process is of the highest quality and that it ultimately results in a settlement that fully repairs all of the damages the Gulf region has suffered due to this tragic spill..."

UPDATED PROGRAM

NRDA FOR THE GULF:

Improving Our Ability to Quantify Chronic Damages

THURSDAY, NOVEMBER 3 (continued)

SESSION I — 9:45 a.m. GULF NRDA: PERSPECTIVES ON THE CURRENT PROCESS

MODERATOR: Michael Dunmyer
EXECUTIVE DIRECTOR, OCEAN CHAMPIONS

NRDA Perspectives from the Nation's Largest Oil Spill: What Works and What Doesn't

Garret Graves
*CHAIR, COASTAL PROTECTION AND RESTORATION
AUTHORITY OF LOUISIANA*

Science During Crisis: Scenario Building for the Deepwater Horizon Oil Spill

Dr. Gary E. Machlis
*LEAD SCIENTIST, DOI STRATEGIC SCIENCES WORKING GROUP
SCIENCE ADVISOR TO THE DIRECTOR, NATIONAL PARK SERVICE*

Break

The Importance of Independent Research in the NRDA Process

Erik Rifkin, PhD
*INTERIM EXECUTIVE DIRECTOR
NATIONAL AQUARIUM CONSERVATION CENTER*

Discussion

Lunch **12:30–1:45 p.m.**

SESSION II — 1:50 p.m. WATER/SEDIMENT SAMPLING, ANALYSIS AND WATER COLUMN MODELS

MODERATOR: Nicholas Jones, PhD
*DEAN, WHITING SCHOOL OF ENGINEERING
PROFESSOR OF CIVIL ENGINEERING
JOHNS HOPKINS UNIVERSITY*

Current EPA Water Column and Sediment Sampling Protocols

Susan Holdsworth
*MONITORING BRANCH OFFICE OF WETLANDS OCEANS
AND WATERSHEDS, EPA*

Benefits and Shortfalls of Using Passive Samplers

David Alvarez, PhD
*BRANCH CHIEF ENVIRONMENTAL CHEMISTRY
COLUMBIA ENVIRONMENTAL RESEARCH CENTER, USGS*

Quantifying Chronic Damages in the Gulf—Modeling Bioconcentration and Bioaccumulation

Ed Bouwer, PhD
*DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL
ENGINEERING, JOHNS HOPKINS UNIVERSITY*

Break

Appropriate Interpretation of Passive Sampler Data—Estimating Water Concentrations

Yongseok Hong, PhD
*POST-DOCTORAL SCHOLAR, JOHNS HOPKINS UNIVERSITY
AND NATIONAL AQUARIUM CONSERVATION CENTER*

Discussion

NOW SERVING
A deliciously entertaining experience!



F R E S H THOUGHTS:
Sustainable Seafood Dining Series

Thursday Evening, 6:30 p.m., November 3

Enjoy a stunning three-course menu featuring ocean-wise seafood, exclusively prepared by a special guest chef, and paired with selected wines. The National Aquarium offers a *Welcome to Baltimore!* discount to Symposium attendees.

Seating is limited, so be sure to select the Fresh Thoughts Dinner when you register for the Symposium

UPDATED PROGRAM

NRDA FOR THE GULF:

Improving Our Ability to Quantify Chronic Damages

FRIDAY, NOVEMBER 4

7:15–8:15 a.m.

Continental Breakfast

8:25 a.m.

Opening Address

NRDA in the Context of Broader Responses to the
Macondo Blowout

Donald Boesch, PhD

*PROFESSOR AND PRESIDENT, UNIVERSITY OF MARYLAND
CENTER FOR ENVIRONMENTAL SCIENCE*

*MEMBER, PRESIDENT'S NATIONAL COMMISSION ON THE BP
DEEPWATER HORIZON OIL SPILL AND OFFSHORE DRILLING*

SESSION III — 9:00 a.m.

ASSESSING CHRONIC TOXICITY FOR NRDA

MODERATOR: Michael Crosby, PhD

*SENIOR VICE PRESIDENT FOR RESEARCH
MOTE MARINE LABORATORY*

Importance and Challenges of Quantifying
Chronic Effects

Jackie Savitz

*SENIOR SCIENTIST, SENIOR CAMPAIGN DIRECTOR
OCEANA*

Sub-lethal Effects of Oil on Marine Organisms

Dana Wetzel, PhD

*SENIOR SCIENTIST AND PROGRAM MANAGER
MOTE MARINE LABORATORY*

Using Muscle Watch Data to Assess Chronic and
Acute Damages in the Gulf

Gunnar Lauenstein, PhD

*CHIEF, COASTAL OCEAN ASSESSMENTS STATUS AND
TRENDS (COAST) BRANCH, NOAA*

Break

Oil and Marine Mammals: Documented Effects,
Critical Uncertainties and New Tools

John Reynolds, PhD

*DIRECTOR, CENTER FOR MARINE MAMMALS AND SEA TURTLE
RESEARCH, MOTE MARINE LABORATORY*

Discussion

Lunch **11:30 a.m.-12:45 p.m.**

SESSION IV — 1:00 p.m.

PANEL DISCUSSION: AFFECTED COMMUNITY PERSPECTIVES

MODERATOR: John Kostyack

*VICE PRESIDENT WILDLIFE CONSERVATION
NATIONAL WILDLIFE FEDERATION*

Panel members will discuss opportunities and challenges involved
with engaging NGOs and local communities in the NRDA process
to ensure fair outcomes.

Casi Calloway

EXECUTIVE DIRECTOR, MOBILE BAYKEEPER

Monica Farris

*DIRECTOR, CENTER FOR HAZARDS ASSESSMENT, RESPONSE,
AND TECHNOLOGY, UNIVERSITY NEW ORLEANS*

John B. Hammond, III

*REGIONAL EXECUTIVE DIRECTOR
NATIONAL WILDLIFE FEDERATION*

Aaron Viles

DEPUTY DIRECTOR, GULF RESTORATION NETWORK

Chris Dorsett

*DIRECTOR, FISH CONSERVATION AND GULF
RESTORATION PROGRAM
OCEAN CONSERVANCY*

Discussion

Closing Remarks and Adjournment

Adjourn **3:30 p.m.**

Not Registered? [Click here for more information.](#)