Gulf Research Program: Accomplishments and Next Steps

Maggie Walser May 15, 2014

GULF RESEARCH PROGRAM

National Academy of Sciences National Academy of Engineering Institute of Medicine National Research Council



A 30-year, \$500 million program

- Established and funded by the *Deepwater Horizon* criminal settlements that the U.S. Department of Justice negotiated with BP (\$350M) and Transocean (\$150M). Funds accumulate over 5 years, must be spent within 30 years.
- Directed to operate in three realms:
 - Human health
 - Environmental protection
 - Oil system safety
- Given three broad objectives:
 - Research and development
 - Education and training
 - Environmental monitoring
- Led by an Advisory Group charged to articulate a vision, identify broad opportunities, and design a framework that leads to significant, long-term impact





Dr. Barbara A. Schaal, NAS Washington University, St. Louis (CHAIR) Dr. Donald F. Boesch University of Maryland, Cambridge George Washington University **Dr. Robert S. Carney** Louisiana State University Dr. Stephen R. Carpenter, NAS University of Wisconsin, Madison Dr. Cortis K. Cooper **Chevron Corporation Dr. Courtney Cowart** Sewanee: The University of the South Dr. Robert A. Duce Texas A&M University, College Station Dr. Deborah Estrin, NAE **Cornell New York City Tech** Dr. Christopher B. Field, NAS **Carnegie Institution for Science**

Dr. Gerardo Gold-Bouchot Center for Research and Advanced Studies at Merida Dr. Lynn R. Goldman, IOM Dr. Bernard D. Goldstein, IOM University of Pittsburgh Graduate School of Public Health Dr. Thomas O. Hunter Sandia National Laboratories (retired) Dr. Shirley Ann Jackson, NAE **Rensselaer Polytechnic Institute** Dr. Ashanti Johnson University of Texas, Arlington Dr. David M. Karl, NAS University of Hawaii **Ms. Molly McCammon** Alaska Ocean Observing System Dr. Linda A. McCauley, IOM Emory University Dr. J. Steven Picou University of South Alabama

Dr. Eduardo Salas University of Central Florida Mr. Kerry Michael St. Pé Barataria-Terrebonne National Estuary Program Dr. Arnold F. Stancell, NAE Mobil Oil: Georgia Tech (retired) Dr. LaDon Swann Mississippi-Alabama Sea Grant Consortium; Auburn University Mr. James W. Ziglar Van Ness Feldman Dr. Mark D. Zoback, NAE Stanford University





Draft strategic objectives:

- Support research, technology development, and information synthesis and assessment, that protects, restores, and improves environmental quality, oil system safety, public health, and community resilience in ocean and coastal oil- and gas-producing regions.
- Contribute to environmental protection and restoration through support of innovative and collaborative approaches to long-term environmental monitoring, including data analysis, interpretation, and application, in the Gulf of Mexico and other coastal regions.
- Foster capacity-building and the engagement, education, and training of scientists, engineers, health professionals, and offshore industry operating personnel prepared to deal with future issues at the energy-environment-people interface.





Learning the Landscape

- Three Advisory Group meetings with over 30 state, university, federal, health, industry and NGO speakers
 - New Orleans, LA
 - Washington, DC
 - Houston, TX
- Five state input meetings with ~125 Gulf stakeholders representing state, university, federal, health, industry and NGO perspectives
 - Mobile, AL
 - Thibodaux, LA
 - Tallahassee, FL
 - Long Beach, MS
 - Austin, TX
 - Two virtual meetings, the last with 100+ participants





Research and development: R&D gaps and needs.

Education and training: K-12 to graduate school to job safety and more; must find focus.

Environmental monitoring: Currently fractured and project-driven. Offers a key opportunity.

Human health: Health is poor by national standards. Real improvements will take decades to address. Again, must find focus.

Oil system safety: Seeing significant investments by industry in the wake of *Deepwater Horizon*. What is our role?





2014 Next Steps

In 2014, the Gulf Research Program will

- Hold final Advisory Group meeting
- Prepare a "vision document"
- Continue community interactions
- Plan and hold three "opportunity analysis" workshops – education and training, public health, environmental monitoring
- Issue final vision document
- Announce first opportunities
- Continue planning major activities
- Transition from Advisory Group to Advisory Board





Education and Training: June 9-10

Framing Questions: What does the next generation Gulf of Mexico workforce look like? How do we educate and train these workers? How do we build capacity in the Gulf region's middle skilled workforce?

Environmental Monitoring: September 3-4

Likely focus: Assessing emerging priorities of a regional network of environmental monitoring programs and projects and strengthening our understanding of integral links between environment monitoring and maintaining ecosystem services

Public Health: September 22-23

Likely focus: Enhancing the resilience of Gulf communities to limit harms from future external stresses and disturbances and strengthening our understanding of integral links between the environment and human health

