

BOEMRE's Ocean Energy Safety Advisory Committee

March 11, 2011

Dr. Tomas Hunter – Committee Chairperson

Dr. Thomas (Tom) O. Hunter retired in July 2010 as President and Laboratories Director of Sandia National Laboratories. Sandia, with principal sites in Albuquerque, NM, and Livermore, CA, is a multi-program laboratory operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration. Dr. Hunter joined Sandia in 1967 and became president in April 2005. His responsibilities included managing the Laboratories' \$2.3 billion annual budget and approximately 8,400 employees. Before assuming his role as Sandia's Director, Dr. Hunter served as the Labs' Senior Vice President for Defense Programs. In that capacity, he led the Defense Programs Strategic Management Unit, including approximately 60 percent of the Laboratories' annual budget.

Dr. Hunter served as the lead of the federal government's scientific team that worked with BP officials to develop and analyze solutions to the BP oil spill.

Committee Members:

- **Dr. Joseph Gebara**

Dr. Gebara has worked closely with the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE), as well as the UK HSE on developing new technology for the decommissioning of platforms in the Gulf of Mexico as well as on the fitness for purpose assessment of offshore platforms. Currently, Dr. Gebara serves as the Director of Projects for the Floaters Business Unit at Technip. He is responsible for the engineering, procurement and construction of floating systems such as spars, TLPs and Semisubmersibles.

- **Don Jacobsen**

D.E. "Don" Jacobsen was named Senior Vice President – Operations, effective July 30, 2009. Jacobsen is accountable for the safe and effective delivery of drilling and completion services on Noble's 73 rigs operating around the world. In this capacity, Jacobsen is responsible for increasing organizational capability, promoting a culture of safety and health and ensuring operational excellence in Noble's operating areas including the Gulf of Mexico, Brazil, the North Sea, West Africa, North Africa, Europe and the Far East.

- **Paul K. Siegele**

Paul K. Siegele was recently named president of Chevron's Energy Technology Company, located in Houston, Texas, and is responsible for Chevron's global upstream and downstream technology research and development and technical services to Chevron operating companies worldwide. Prior to this position, Siegele was vice president of Strategic Planning, a corporate role for Chevron. In 1980, he earned a Bachelor of Science degree in geology from the California Lutheran University, and in 1990 he received a Master of Science degree in geology from the California State University at Northridge.

- **Charlie Williams**

C.R. (Charlie) Williams II is Chief Scientist - Well Engineering and Production Technology for Shell worldwide. He was appointed Chief Scientist in 2005. In this capacity he advises and consults on the Shell R&D and technology development program, does technical review of major projects, does senior technical consulting and special projects, and serves as advisor to Shell senior management. He currently chairs two Industry Task Forces - Subsea Well Control & Containment and Industry Safety Institute. He also serves on the Sponsor Committee of the Marine Well Containment Project and the Executive Board of the Marine Well Containment Company.

- **Lois Epstein**

Lois N. Epstein, P.E. is the Arctic Program Director for The Wilderness Society, a national conservation organization with an office in Anchorage. Her efforts focus on ensuring that onshore and offshore Arctic oil and gas operations are as safe and environmentally-sound as possible and protecting sensitive areas from new resource development. Previously, Ms. Epstein was a private consultant on environmental and policy issues. Ms. Epstein has presented invited testimony before the U.S. Congress on over ten occasions, largely focusing on release prevention in the oil and gas sector. Additionally, she has served on federal advisory committees, and appeared in *The New York Times*, *The Washington Post*, *CNN*, and *The NewsHour with Jim Lehrer*. In May 2010, Ms. Epstein advised the Department of the Interior on its safety report to the President following BP's Gulf spill.

Ms. Epstein is a licensed Professional Engineer in the States of Alaska and Maryland. She has a masters' degree from Stanford University in Civil Engineering with a specialization in environmental engineering and science, and undergraduate degrees from both Amherst College (English) and MIT (mechanical engineering).

- **Dr. Nancy Leveson**

Dr. Leveson has been involved in research, teaching, and consulting in the area of system safety and process safety for 30 years, starting with looking first at the impacts of computers on safety and later expanding to all aspects of safety including engineering, management, cultural, and social (regulatory). She has worked on most types of safety critical systems including those in Defense and Oil and Gas Exploration and Production.

Dr. Leveson is co-owner of a company, Safeware Engineering Corporation, which has been providing contractual services on system safety engineering since 1992. She also teaches graduate classes on system engineering and system safety at MIT.

- **Dr. Tad Patzek**

Dr. Patzek is the dean of the Cockrell School of Engineering at The University of Texas at Austin, and the Lois K. and Richard D. Folger Leadership Professor and Chairman of the Petroleum and Geosystems Engineering Department. As the leader of its top-ranked petroleum engineering department, Dr. Patzek is knowledgeable about all areas of energy production and policy. Dr. Patzek has studied complex natural systems in geosciences and biology, and their stable and unstable behavior. Currently he is engaged in research on social complexity, social interactions, inventiveness, and on the role of research and technology in energy production.

- **Richard Sears**

As chief scientist for The National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling Mr. Sears provided technical and policy recommendations on offshore drilling to prevent future accidents of this type. Mr. Sears has provided technical expertise to the investigation into the causes of the incident, and in the preparation of recommendations to the Commission. He was responsible for accessing industry expertise to aid the Commission in carrying out its duties, and was a contributing author of the Chief Counsel's Report which detailed the technical and managerial factors leading to the blowout and spill.

During his 33 years with Shell Oil Co. and Royal Dutch Shell, Mr. Sears has acquired significant domestic and international experience in the upstream oil and gas industry, holding technical and managerial positions including Exploration Geophysicist, Technical Instructor, Economist, Strategic Planner, and General Management. The managerial positions have ranged from Exploration and Research to fully integrated Exploration and Production Business Management.

- **Walter D. Cruickshank , Ph.D.**

Walter D. Cruickshank has been the Deputy Director of the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE) since 2002. He assists the BOEMRE Director in the administration of programs that ensure the effective management of energy and mineral resources located on the nation's outer continental shelf, including the environmentally safe exploration, development, and production of oil, natural gas, and renewable energy.

Dr. Cruickshank previously served as the Bureau's Associate Director for Policy and Management Improvement and has worked in the Department of the Interior for over 25 years. He received a Bachelor of Arts in Geological Sciences from Cornell University and a Doctorate in Mineral Economics from the Pennsylvania State University.

- **Stephen Hickman, Ph.D.**

Stephen Hickman is a research geophysicist with the U.S. Geological Survey's Earthquake Science Center in Menlo Park, California. His research focuses on deep borehole studies of the interaction between stress, fracturing and fluid flow at high pressures and temperatures and the physical and chemical processes controlling faulting and earthquake generation within active faults. He has led or participated in numerous scientific drilling projects in the United States and abroad, and is co-principal investigator on the San Andreas Fault Observatory at Depth and Chair of the Science Advisory Group for the International Continental Scientific Drilling Program. He received a Bachelor's degree in geology from Earlham College and a PhD in solid-earth geophysics from the Massachusetts Institute of Technology.

- **Captain Patrick E. Little**

Captain Patrick E. Little has been the Commanding Officer, Coast Guard Marine Safety Center (MSC), in Washington, DC, since 2008. The MSC provides technical engineering expertise to Coast Guard Sectors and Marine Safety Units and works closely with domestic and international naval architects, marine engineers, vessel classification societies, the shipbuilding industry and other maritime industry stakeholders. The MSC

also supports Coast Guard field commanders by providing emergency salvage engineering assistance and post-casualty forensic engineering analysis.

Captain Little previously served in a variety of Coast Guard field and staff assignments, with an emphasis on marine safety, security and environmental protection. He received a Bachelor of Science degree in Marine Engineering from the US Coast Guard Academy, a Masters degree in Business Administration from the University of Baltimore, and Master of Science degrees in Naval Architecture and Marine Engineering, and Mechanical Engineering from the Massachusetts Institute of Technology. He also completed a Military Fellowship at the Center for Strategic and International Studies in Washington, DC.

- **Christopher Smith**

Christopher Smith is Deputy Assistant Secretary for Oil and Natural Gas in the Office of Fossil Energy of the U.S. Department of Energy. In this position, Smith is responsible for administering domestic and international oil and gas programs, including research and development, policy analysis, and natural gas import and export licensing. The Oil and Natural Gas Office leads the Department of Energy's LNG program which involves the analysis of safety and other technical issues. He served as the Designated Federal Officer for the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling.

Prior to his appointment in October of 2009, Smith served in managerial and analytical positions of increasing responsibility in the private sector. Most recently he spent eleven years with two major international oil companies focused primarily on upstream business development and LNG trading, including three years negotiating production and transportation agreements in Bogotá, Colombia.

Smith holds a bachelor's degree in Engineering Management from the United States Military Academy at West Point and an MBA from Cambridge University.

- **Mathy Stanislaus**

As Assistant Administrator for the Office of Solid Waste and Emergency Response, Mr. Stanislaus is responsible for EPA's programs on hazardous and solid waste management, hazardous waste cleanup including RCRA corrective action, Superfund and federal facilities cleanup and redevelopment, Brownfields, oil spill prevention and response, chemical accident prevention and preparedness, underground storage tanks, and emergency response.

Prior to assuming the position of Assistant Administrator for EPA's Office of Solid Waste and Emergency Response, Mr. Stanislaus co-founded, and co-directed the New Partners for Community Revitalization, a NY not-for-profit organization whose mission is to advance the renewal of New York's low and moderate income neighborhoods and communities of color through the redevelopment of Brownfields sites. In collaboration with community, commercial, government and nonprofit partners, Mr. Stanislaus led the development of policies, programs and projects aimed at achieving the remediation and sustainable reuse of Brownfields sites in New York.

- **Dave Westerholm**

Dave Westerholm currently serves as the Director of the National Oceanic and Atmospheric Administration's (NOAA's) Office of Response and Restoration. He oversees an Emergency Response Program that includes Scientific Support Coordinators who directly support Coast Guard Federal On Scene Coordinators with environmental data, modeling, preparedness aids and training. As the primary federal trustee his Restoration Program is responsible for protecting coastal and marine resources, mitigating threats, reducing harm, assessing damage and restoring ecological function under the Clean Water Act, CERCLA and the Oil Pollution Act.

Mr. Westerholm manages the Marine Debris Program, a multi-agency effort devoted to prevention, education and mitigation of the hazards of persistent marine debris. Prior to NOAA, Mr. Westerholm had several years of corporate experience as both Senior Operations Director and Vice President for Maritime Security, Policy and Communications for Anteon Corporation and then General Dynamics. He is a retired Coast Guard Captain with over 27 years of experience where he specialized in marine safety, security and environmental protection. Mr. Westerholm holds a BA in Science from Temple University and a MS in Environmental Management from the University of Michigan.