

JONATHAN R. GRANT

EDUCATION

S.M., Technology and Policy Program, Massachusetts Institute of Technology, 1996
M.Eng., Ocean Engineering, Massachusetts Institute of Technology, 1996
M.Eng., Coastal Engineering, University of Florida, 1991
B.S., Mechanical Engineering, Cornell University, 1988

PROFESSIONAL SUMMARY

Mr. Grant has over 16 years of experience evaluating coastal and marine environments. His experience includes the physical processes concerning them, the environmental policy affecting them, and the toxicological effect of oil and hazardous materials in both freshwater and marine ecosystems. Mr. Grant has modeled shorelines and assessed the effects of natural and anthropogenic processes on them. He has been involved in assessing the fate and effect of oil and hazardous materials in both nearshore and benthic marine environments. He has assessed damages, determined response strategies, and developed remedial and damage compensation options at hundreds of contaminated sites. Mr. Grant has significant experience providing environmental and scientific support and review for contaminated sites as Attorney Work Product, providing expert witness preparation, and providing technical review for opposing deposition. He has assessed natural and cultural resource injuries, groundwater and surface water injuries, and has experience assessing and minimizing risk in varied environments. He has managed teams of experts to develop spill response strategies, resource specific sampling protocols, and spill contingency planning. He has experience preparing and conducting Natural Resource Damage Assessment training. Mr. Grant has experience managing projects that range from small specialized teams of experts to multi-national teams with diverse expertises, and he has been involved in developing proposals for a similar range of projects. Mr. Grant's experience in a wide range of environmental project types, demonstrate his diverse capabilities in his discipline. The following projects provide a representation of his consulting experience.

PROFESSIONAL AFFILIATIONS:

- Association of Coastal Engineers
- Society of Environmental Toxicology and Chemistry (SETAC)

SELECTED PROFESSIONAL EXPERIENCE

U.S. Department of Interior and State of Michigan. Rouge River Natural Resource Damage Assessment, Detroit, Michigan. Senior Scientist on developing a natural resource damage assessment in response to the Rouge River Mystery Spill of 2002 [2004 – Present].

Texas General Lands Office, Texas Parks and Wildlife Department and Texas Commission of Environmental Quality. Austin TX. Senior Scientist on developing and valuing all natural resources damaged by past mystery oil spills [2005-Present].



Multiple Government and Private Clients. Nationwide. Project Manager and Senior Scientist for Claims Assessment Group (www.claimsassessment.com). The Claims Assessment Group (CAG) is a nationwide consortium of consulting firms supporting public and private clientele in conducting damage assessments and economic valuations on commercial and non-commercial goods and services damaged by oil spills. These damage assessment culminate in the valuation of damaged goods and the corresponding generation of damage claims submitted to parties responsible for spills or the United States Coast Guard's National Pollution Funds Center. Current oil spills include the Selendang Ayu oil spill, AK; Athos I oil spill, NJ and PA; and the EMC423 oil spill, IL [2005-Present].

United States Coast Guard National Pollution Fund Center. Technical and Managerial Support to US Coast Guard, National Pollution Fund Center's Natural Resource Damage Division-Arlington, VA. Senior scientist assisting the United States Coast Guard National Pollution Funds Center (NPFC) in the evaluation of claims for environmental damage compensation and restoration; and programmatic development of a new division to adjudicate natural resource damage (NRD) claims submitted by state, federal and tribal trustees. This entails the expert review of claims for natural resource damage assessment and habitat restoration plans throughout the United States and its Trust Territories, expert training, design and implementation of internal and external operating procedures for adjudicating natural resource damage claims and communicating NRD information requirements to trustees [1998 – Present].

Confidential Client. Environmental Damage Claims Assessment-International Client. Senior Scientist that provided claims evaluation and adjusting support for an international claims compensation commission which service multi-national claimants experience a wide range of environmental damages. Damages involve the exposure of hazardous substances to air resources, surface/groundwater resources, public health, cultural resources, marine resources, terrestrial resources and refugees [2000].

National Oceanic and Atmospheric Administration and the United States Navy. Developed facility specific pre-spill planning documents for Natural Resource Damage Assessment resulting from an oil spill. This work included the characterization of all local natural resources and the development of resource specific sampling protocols. Worked closely with NOAA Damage Assessment Center personnel to prepare and conduct Natural Resource Damage Assessment training at Navy facilities. Facilities included Pearl Harbor, Oahu; Pacific Missile Range Facility, Kauai; and Apra Harbor, Guam [1999-2000].

U.S. Fish and Wildlife Service. Preliminary Estimate of Damages for Lake Ontario and the Niagara River, New York. Senior Scientist that provided technical support to the U.S. Fish and Wildlife Service (USFWS) on natural resource damage assessment issues associated with waste sites located on the Niagara River and Lake Ontario. Assisted the USFWS in assessing the types of injuries resulting from



releases of hazardous substances into these waterways, and identifying the appropriate type and scale of restoration options to compensate for these injuries [1998-1999].

U.S. Fish and Wildlife Service. Preliminary Estimate of Damages for the Little Mississinewa and Mississinewa Rivers, Indiana. Senior Scientist that provided technical support to the U.S. Fish and Wildlife Service (USFWS) on natural resource damage assessment issues associated with waste sites located along the Little Mississinewa and Mississinewa Rivers, Indiana. Assisted the USFWS in assessing the types of injuries resulting from releases of hazardous substances into these waterways, and identifying the appropriate type and scale of restoration options to compensate for these injuries [1999].

U.S. Fish and Wildlife Service. Preliminary Estimate of Damages for the St Lawrence River, the Grasse River, and the Raquette River, New York. Senior Scientist that provided technical support to the U.S. Fish and Wildlife Service (USFWS) on natural resource damage assessment issues associated with waste sites located on the St Lawrence River, the Grasse River, and the Raquette River, New York. Assisted the USFWS in assessing the types of injuries resulting from releases of hazardous substances into these waterways, and identifying the appropriate type and scale of restoration options to compensate for these injuries [1998-1999].

U.S. Fish and Wildlife Service. Preliminary Estimate of Damages for Jamaica Bay, New York. Senior Scientist that provided technical support to the U.S. Fish and Wildlife Service (USFWS) on natural resource damage assessment issues associated with waste sites located on Jamaica Bay, New York. Assisted the USFWS in assessing the types of injuries resulting from releases of hazardous substances into these waterways, and identifying the appropriate type and scale of restoration options to compensate for these injuries [1998-1999].

Department of Justice. Provided technical and management support for a major marine Superfund site. This support focused on the review of all work on the footprint, fate and transport of the contaminated sediments, and the modeling efforts to predict the natural recovery of the contaminated sediments. Expert analysis was provided on nearshore and offshore sedimentation rates as well as capping options of offshore contaminated waste sites. Additional support included expert witness deposition preparation and deposition review [1996-2000].

National Atmospheric and Oceanographic Administration. Calcasieu Estuary, Louisiana. Project manager that provided technical support to the National Oceanic and Atmospheric Administration for the development of a sampling and analysis plan for the Estuary. This work included characterizing the present sediment dynamics of the Calcasieu Estuary and reviewing and assessing the dredging history of the Estuary [1997].

Environmental Protection Agency's Office of Solid Waste and Emergency Response. Provided technical support for the development of a strategic planning tool to encourage long-term strategic thinking and compliance with the Government Performance and Results Act. The support included selecting problem areas and identifying attributes that characterize and communicate the risks, costs, and benefits of the Office's programs and initiatives [1996-1998].



United States Coast Guard. Designed a risk and safety index for ocean based oil transportation. Developed a systems dynamics model of oil tanker transportation that incorporated both management and human systems with structural and technological systems. This index and model was done in support of work exploring alternatives to transportation requirements included in the Oil Pollution Act of 1990. [1994-1996].

Florida Sea Grant and the State of Florida. Developed numerical models of all of the inlets along the coastline of the State of Florida to determine the influence of the inlet on shoreline changes and to determine the shoreline response resulting from modifying inlets. The model results were part of a larger initiative to develop effective shoreline protection measures [1990-1992].

State of Florida, Department of Natural Resources. Developed methodology to predict 30 year erosion rates and shoreline projections in the vicinity of beach nourishment projects. Methodology was used to model all beach nourishment projects and stabilized inlets to provide projected shoreline contours. The model results were used to support the development of a coastal construction line for the State of Florida. [1989-1991]

Federal Emergency Management Agency. Research Engineer on Hurricane Hugo damage assessment of the South Carolina barrier islands. Focus was on shoreline changes and the damage to coastal structures. The damage assessment was used to evaluate the performance of engineered and non-engineered structures and the methods of failure [1989-1990]

Selected Reports and Publications

McDonald, M., J. Grant, T. Reilly, and N. Whitaker. "Professional Judgement Report for Groundwater and Surface Water Monitoring and Assessment Studies." June 2000. 80 pp. + appendices.

Reilly, T., J. Weiss, J. Grant S. Thompson, G. Richards and M. Stern. "Interpreting the Toxicity of Hazardous Substances in Sediment and Tissue Samples." February 2000. 52 pp. + appendices.

Weiss, J., and J. Grant. "Preliminary Estimate of Natural Resource Damages for the Little Mississinewa and Mississinewa Rivers." Cambridge, MA. 25 pp. + appendices. March 1999

Grant, J. "Sea Level Rise and Private Property Rights in Shoreline Management." MIT Press *May 1996*.

Grant, J. "Historical Shoreline Response to Inlet Modifications and Sea Level Rise" UFL/COEL 92/008 *May 1992*.

Dean, R.G., and J. Grant. "Development of Methodology for Thirty-Year Shoreline Projections in the Vicinity of Beach Nourishment Projects" UFL/COEL 89/026, *December 15, 1989*.



Previous Employers

2004-2005	Zoco Engineering, MA, Principal.
2001-2004	Zro Consulting, MA, Consultant.
1997-2000	Industrial Economics, Incorporated, MA, Associate.
1994-1996	Massachusetts Institute of Technology/Sea Grant, MA, Research Assistant.
1991-1993	Kestrel Limited, BVI, Coastal Engineer and Commercial Diver
1990-1991	Coastal Oceanographic & Engineering Laboratory, FL, Coastal Engineer and Diver.
1989-1991	Florida Sea Grant, FL Research Assistant.

CONTACT INFORMATION

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