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Dr. Michel Boufadel is Professor of Environmental Engineering and Director of the Center for Natural Resources Development and Protection at the New Jersey Institute of Technology. He is a Professional Engineer in Pennsylvania and New Jersey, and a Board Certified Professional Engineer in USA, a Fellow of the American Society of Civil Engineers, a Professional Hydrologist as accredited by the American Institute of Hydrology, and a Diplomate of Water Resources Engineering. Dr. Boufadel served recently on two National Research Council (National Academies) committees: “An ecosystem services approach to evaluate the impact of the Deepwater Horizon spill on the Gulf of Mexico”, and “Evaluation of effective daily recovery capacity” of oil spills. And is currently serving on an NRC Committee titled “Impact of diluted bitumen spills on the environment”. He is also serving on a committee by the Royal Society of Canada on “The impact and behavior of oil in aquatic environments”. He also served on the Environmental Protection Agency (EPA) Science Advisory Board on natural gas extraction from shale formations (2011-2012).

Dr. Boufadel has been conducting assessment and remediation projects on the transport and fate of chemicals in multimedia: oceans, lakes, rivers, and aquifers. His approach is holistic and multiscale, integrating processes from the nano scale to the mega scale. His recent work includes the remediation of the Exxon Valdez oil spill and assessment of oil fate in the environment following the Deepwater Horizon oil spill. He is also investigating the impact of Hurricane Sandy on the mobilization of hazardous compounds, and the biodegradation of hydrocarbons using aerobic and anaerobic processes. Dr. Boufadel has more than 100 refereed articles in environmental engineering and science publications, such as NATURE geosciences, Environmental Science and Technology, and Journal of Geophysical Research (Oceans).