

Refereed Publications

Journal Manuscripts

Martin, Hector, Sapphire Vital, Leighton Ellis, and Charmaine Obrien-Delpesh. "Motivating Civil Engineering Students: Self-Determinacy Perspective." *Journal of Professional Issues in Engineering Education and Practice* 144, no. 4 (2018): 04018005.

Martin, Hector, Myrna Ellis, and Charmaine Delpesh. (2016). "Risk Perception in a Multi-Hazard Environment: A Case Study of Maraval, Trinidad." *West Indian Journal of Engineering (WIJE)*, 39(1), 32-43. (2016 Journal rank B; H index or impact factor unknown; Citation = 1)

Gopaul, N. and O'Brien-Delpesh, C. (2004). *The Use of a Nearshore Wave Model in Identifying Shoreline Change at Station Beach, La Brea, Trinidad. Journal of Coastal Research, Special Issue 39. Pp 1474-1478.* Journal Rank C. (Citation – 1)

Conference Proceedings

O'Brien-Delpesh, C., Gray-Bernard, C. and Tang Kai, M. *Project Performance and Monitoring of a Revetment, Cocos Bay, East Trinidad.* Proceedings of 33rd Conference on Coastal Engineering (ICCE) Santander, Spain, 2012.

O'Brien-Delpesh, C. 1993. *Monitoring the Impacts of a Coastal Protection Structure on La Guira Bay, Tobago.* In: Coastal Engineering Considerations in Coastal Zone Management. American Society of Civil Engineers. Coastal Zone '93 the Eight Symposium on Coastal and Ocean Management, New Orleans, Louisiana, pp. 258-273.

Bertrand, D., O'Brien-Delpesh, C., Gerald, L. and Romano, H. 1991. *Coastlines of Trinidad and Tobago - A coastal stability perspective.* In: *Coastlines of the Caribbean.* American Society of Civil Engineers. Coastal Zone '91 the Seventh Symposium on Coastal and Ocean Management, Long Beach, California, pp. 1-16. (Citation – 7)

O'Brien, C. and Lawson, D. 1988. *Nearshore Processes and Sedimentation at Queen's and Richmond Bays, Tobago, West Indies.* Transactions of the 11th Caribbean Geological Conference, Barbados, pp. 14:1 – 14:25.

MSC. Thesis

Nearshore Processes and Sedimentation at Queen's and Richmond Bays, Tobago

Non - Refereed Publications and Related Works

Book Chapters

O'Brien-Delpesh, C. 1998. Rip Currents – Where Danger Lurks! Ocean '98 Institute of Marine Affairs, pp.12-14.

Contributing author of Beaches and Bays of Trinidad and Tobago. Institute of Marine Affairs Publication

Conference Proceedings

O'Brien-Delpesh, C. 2001. *"Shoreline Change Along West Guapo Bay"*. The UNESCO/IOC/UPR/SGCP Conference on *"Managing Beaches in the Caribbean: Investing in our Future"*.

O'Brien-Delpesh, C. 1997. Effects and Implications of Beach Sand Mining in Tobago. Proceedings of the UNESCO/IOC/UPR/SGCP Workshop on *"Integrated Framework for the Management of Beach Resources in the Smaller Caribbean Islands"*, pp. 77-86.

Conference Proceedings (Cont'd)

O'Brien-Delpesh, C. 1993. *"Global Warming, Climate Change and Sea Level Rise - Trinidad and Tobago Response"*. The World Coast Conference'93 Preparatory Workshop for the Eastern Pacific, Atlantic Oceans and the Mediterranean Sea. New Orleans, Louisiana.

Manuscripts in Preparation

O'Brien-Delpesh, C. Development of a Rapid Assessment Tool for the Morphodynamics of Headland Bay Beaches in the Caribbean.

Iheanyichukwu Onuoha and O'Brien-Delpesh, C. Assessment of Coastal Erosion Vulnerability of the East Coast of Trinidad.

Nyoka Sinanan and O'Brien-Delpesh, C. Assessing the Sensitivity of the East Coast of Trinidad to Oil Spills.

Presentations in Conferences

Project Performance and Monitoring of a Revetment, Cocos Bay, East Trinidad. 33rd Conference on Coastal Engineering (ICCE) Santander, Spain, June 2012.

"An Assessment of the Coastal Dynamics of the North Coast of Trinidad" 2004. Cropper Foundation.

"The Use of a Nearshore Wave Model in Identifying Shoreline Change at Station Beach, La Brea, Trinidad". International Coastal Symposium, Itajai, Brazil, March 2004.

"Shoreline Change along West Guapo Bay". The UNESCO/IOC/UPR/SGCP Conference on *"Managing Beaches in the Caribbean: Investing in our Future"*. June 2001.

"Effects and Implications of Sand Mining in Tobago" The UNESCO/IOC/UPR/SGCP Workshop on *"Integrated Framework for the Management of Beach Resources in the Smaller Caribbean Islands"*. October 1996.

"Monitoring the Impacts of a Coastal Protection Structure on La Guira Bay, Tobago". American Society of Civil Engineers. Coastal Zone '93 the Eight Symposium on Coastal and Ocean Management, New Orleans, Louisiana, July 1993.

"Global Warming, Climate Change and Sea Level Rise - Trinidad and Tobago Response". The World Coast Conference '93 Preparatory Workshop for the Eastern Pacific, Atlantic Oceans and the Mediterranean Sea. New Orleans, Louisiana, July 1993.

Presentations in Conferences Cont'd

"Coastlines of Trinidad and Tobago - A coastal stability perspective". American Society of Civil Engineers. Coastal Zone '91 the Seventh Symposium on Coastal and Ocean Management, Long Beach, California, July 1991.

Nearshore Processes and Sedimentation at Queen's and Richmond Bays, Tobago, West Indies. 11th Caribbean Geological Conference, Barbados, August 1986.

Technical/Consultancy Reports – UWI

"Comments on the Oil Spill in the Gulf of Paria in December 2013. Report submitted to the Panel of Academics from UWI and UTT selected by His Excellency, President Anthony Carmona, ORTT. (2014). 2pp

"Comments on Concept layout of Mosquito Creek Development and its Potential to accommodate the San Fernando to Point Fortin Highway". Document prepared on behalf of UWI for Lee Young and Partners. (2013). 4pp

Technical/Consultancy Reports – Institute of Marine Affairs (IMA) 1990-2009

"Assessment of Sand Retention on Maracas Beach, Trinidad". Document prepared for Lee Young and Partners (2006). 20pp

Coastal Dynamics In: “Environmental Sensitivity Mapping for West Coast, Trinidad”. Document prepared for *BP Trinidad and Tobago LLC* (2005). 65pp

Marine Geology and Impact Assessment In: “Expansion of Two Marinas at Falmouth Harbour Antigua”. Document prepared for the *Ministry of Agriculture, Lands and Marine Resources*, Government of Antigua and Barbuda (2005). 20pp

Coastal Dynamics In: “Coastal Study at Las Cuevas Bay” (49 – 81). Document prepared for *Las Cuevas Properties Limited* (2005). (16pp).

“Final Report, Monitoring of Beach Stability at Guapo Bay, Point Fortin, Trinidad”. Document prepared for *British Gas Trinidad & Tobago Limited* (2005). *Project Leader*. (28pp).

“Final Report, Technical Advice for the Location of the Entry Point for a 56’ Gas Pipeline at Guapo Bay, Point Fortin, Trinidad”. Document prepared for *Kellogg Pan American Corporation* (2004) *Project Leader*. (11pp).

“Final Report, Monitoring of Beach Stability and Sediment Quality at Guapo Bay, Point Fortin, Trinidad”. Document prepared for *British Gas Trinidad & Tobago Limited* (2003). *Project Leader*. (37pp).

“Final Report, Oceanographic (Wet Season) and Sedimentology Studies for the Coastal Areas in Point Fortin, Irois Bay – Report on Artificial Beach Creation Studies at Clifton Hill”. Document prepared for *Atlantic LNG Company of Trinidad and Tobago* (2003). *Project Leader*. (49pp).

“Final Report Phase II Shoreline Measurement and Monitoring Programme for the Assessment of the Impacts on Construction of the LNG Production Plant and Marine Loading Facility on the Stability of the Coastline at Point Fortin, Trinidad”. Document prepared for *Atlantic LNG Company of Trinidad and Tobago* (2002). *Project Leader*. (99pp).

Technical/Consultancy Reports - IMA 1990-2009 Cont’d

“Environmental Impact Assessment for the Landfall Site: The Laying and Landing of a Gas Pipeline, Guapo Bay, Point Fortin, Trinidad”. Document prepared for *British Gas Trinidad & Tobago Limited* (2000). *Project Coordinator*. (149pp).

Marine Geology: In: “Environmental Impact Assessment/Feasibility Study for the Laying and landing of Project Oxygen Submarine Cables in Saline Bay”. Document prepared for the *Telecommunications Services of Trinidad and Tobago* (1999). (117pp).

Report on Beach and Sediment Dynamics Data for the Design of Coastal Protection Structures in Irois Bay, Point Fortin. Document prepared for *Atlantic LNG Company of Trinidad and Tobago* (1999). *Project Leader*. (11pp).

Coastal Dynamics In: “Loss of Draft Study at the La Brea Port, Trinidad.” (49 – 81). Document prepared for the *National Gas Company of Trinidad and Tobago*. (1998). *Project Leader*. (99pp).

Coastal Dynamics. In: “Final Report of Phase 1, Shoreline Measurement and Monitoring Programme for the Assessment of the Impacts of Construction of the LNG Production Plant and Marine Loading Facility on the Stability of the Coastline at Point Fortin, Trinidad.” (31-42). Document prepared for the *Atlantic LNG Company of Trinidad and Tobago* (1997). (58 pp).

Geological Resources. In: “Environmental Baseline Review for the Point Lisas Aluminium Smelter Feasibility Study at Point Lisas, Trinidad.” Document prepared by the Institute of Marine Affairs for *Tarmac Construction (Caribbean) Limited and SNC – Lavlin Environment Inc.* (1997).

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Environmental Impact Statement for the Infrastructure Development of the Conceptual Plan of Lowlands Estate, Tobago. Document prepared for *Angostura Holdings Limited/Tobago Plantations Limited* (1996).

Environmental Assessment for the Offshore Disposal of Dredged Spoil from the Proposed Port for the LNG Plant at Point Fortin, Trinidad. Document prepared for *Atlantic LNG Company of Trinidad and Tobago* (1996).

Environmental Impact Statement for the Refurbishment and Expansion of the Beach Facilities at Maracas Bay. Final Report prepared for the *National Insurance Property Development Company Limited* (1995). *Project Leader*.

Wave Refraction Analysis. In: Environmental Impact Assessment for Port Expansion Project, St. George's Port, Grenada. Institute of Marine Affairs Technical Advisory Services. Final Report prepared for *Grenada Ports Authority* (1995).

Marine Geology. In: Report of the Phase 1 – Environmental Studies for Design Purposes for the Beach Facilities for Maracas Bay. Institute of Marine Affairs Technical Advisory Services. Document prepared for the *National Insurance Property Development Company Limited* (1995). *Project Leader*.

Review of Information on the Marine Areas off La Brea for the Proposed Brighton Harbour Facilities and the La Brea Industrial Estate. Document Prepared for the *National Gas Company of Trinidad and Tobago Limited* (1995).

Technical/Consultancy Reports – IMA 1990-2009 Cont'd

Marine Geology. In: Environmental Impact Statement for the Americas I Submarine Cable Project in Macqueripe Bay, Trinidad. Institute of Marine Affairs, Technical Advisory Services. Final Report prepared for *Telecommunications Services of Trinidad and Tobago Limited* (1993).

The Assessment of the Physical Conditions of Rockly Bay, Tobago to Inform the Design of the Milford Road Esplanade Project. Document prepared for *Vikab Engineering Consultants Ltd.* (1993). *Project Leader*.

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Monitoring the Impacts of the Coastal Protection Works for the Crown Point Airport Runway Extension on the Coastline of La Guira Bay, Tobago. Final Report prepared for the *Tobago House of Assembly and the Airports Authority of Trinidad and Tobago* (1991). *Project Leader*.

Geology and Hydrography. In: Case Study: - The Establishment of a Marina/Small Craft Harbour in Southwest Tobago. Progress Report for Activity #3 Environmental Impact Assessment. Volume III. Document Prepared for *UNEP Caribbean Regional Co-ordinating Unit* (1991).

Impacts on the Marine Geology. In: The Environmental Impact Assessment of the Extension of the Crown Point Runway, Tobago. Final Report prepared for the *Tobago House of Assembly and the Airports Authority of Trinidad and Tobago* (1990).