

CURRICULUM VITAE

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Personal Information

Nationality: Barbadian
Date of Birth: May 6, 1953.
Married, with two daughters (ages 25 and 18)

Academic Qualifications

- PhD. Coastal Geomorphology/Coastal Resources Management, McGill University, Montreal, Canada, 1987.
- MSc. Climatology, Memorial University, St. John's, Newfoundland, Canada, 1979.
- B. Sc. (First Class Hons). U.W.I., Mona, Jamaica, 1975.

Honours and Special Awards

- Barbados Centennial Honours (BCH), January 2001.
- Governor-General's Award for the Environment, February 2001.
- Certificate of Merit awarded by the Future Centre Trust for outstanding work in support of preservation of natural and artificial reefs, April 2000.

Membership in Professional Societies

- Member International Association of Geomorphologists.
- Member Canadian Coastal and Engineering Science Association.
- Programme Associate, Island Resources Foundation
- Associate Member Barbados Town and Country Planning Society.

Work Experience

- Senior Lecturer, CERMES, UWI, Cave Hill Campus, Barbados (with effect from August 1, 2004).
- Permanent Secretary (Environment), Ministry of Physical Development and Environment, Barbados, 2001-2004 (Resigned with effect from June 5, 2004).
- Director, Coastal Zone Management Unit, Government of Barbados, 1988- 2001.
- Associate Lecturer, CERMES/NRMP, UWI, Cave Hill, from 1990.
- Teaching Assistant, McGill University, 1980-83.

- Teaching Assistant, Memorial University, 1975-77.
- Tutor, Barbados Community College, 1977 - 1988.
- Teacher, Ellerslie Secondary School, Barbados, 1971-72.

Other Professional Experience

- Appointed Barbados' Special Envoy for the Environment, 1999-Present.
- Member, Intergovernmental Oceanographic Commission Consulting Group for Capacity Building – August 2004 – Present.
- Member, Scientific and Technical Advisory Panel (STAP) of the Global Environment Facility (GEF) of the World Bank, 2002-Present.
- Vice-Chairman, Intergovernmental Oceanographic Commission of UNESCO, Sub-Commission for the Caribbean and Adjacent Regions (IOCARIBE), 1995-2002.
- Council Member, Bellairs Research Institute of McGill University, 1991- Present.
- Chairman, Barbados National Terminal Co. Ltd, 1998-present.
- Deputy Chairman, Barbados National Oil Co. Ltd, 1996-Present (Chairman, 1991-94; Director from 1989).
- Deputy Chairman, National Petroleum Corporation, 1988-94 (Director from 1987).
- Member U.W.I. Advisory Committee to Centre for Resources Management and Environmental Studies (CERMES), 1989 - 1993.
- Member Board of Trustees - Governor General's Awards for Environmental Achievement (GAEA), Barbados, 1991–1998.
- Member, Board of Management, Ellerslie Secondary School, Barbados, 1986 - 1994.
- Appointed as *Lead Author* by UN-Intergovernmental Panel on Climate Change (IPCC) for *Second Assessment Report*, 1993; *Regional Impacts of Climate Change*, 1995; and *Third Assessment Report*, 1998.

Academic Awards and Scholarships

- Commonwealth Scholarship awarded by Government of Canada, 1980, to read for PhD. in Coastal Geomorphology and Coastal Resources Management, McGill University.
- Canadian Government Fellowship to read for MSc in Climatology, Memorial University, Newfoundland, 1975.
- Barbados Government Bursary, 1972 to pursue Bachelor's Degree at U.W.I., Mona, Jamaica.
- Faculty Prize for outstanding academic performance, U.W.I., Mona, Jamaica, 1974.

Professional Conferences (Invited as Expert or Resource Person)

- Caribbean Seminar on Environmental Impact Assessment, Barbados 1985 (UWI/CCA/Dalhousie University) 1985.
- UNESCO/CERMES Workshop on Coastal Resources and the Law of the Sea, Barbados, January 1988.
- Seminar on Evaluation of the Pollution of the Waters of the South - East Caribbean Sea by Hydrocarbons - Caracas, Venezuela, Nov. 1-10, 1988.
- OAS Seminar on Management and Planning of the Coastal Zone and the Exclusive Economic Zone in Latin America and the Caribbean - Miami, Florida, Dec. 12-16, 1988.
- Inter-American Development Bank Second Consultative Meeting on Environmental Protection and Conservation of Natural Resources - Washington D.C. May, 24-26, 1989.
- Small States Conference on Sea level Rise - Male, Republic of Maldives, Nov.14-18, 1989.
- Intergovernmental Panel on Climate Change (IPCC) - Workshop on Impact of Climate Change and Sea level Rise on Coastal States - Perth, Australia, February 18-23, 1990.
- United Nations Environment Project (UNEP)/CARICOM/Institute for Research on Public Policy, Ottawa - Public Policy Implications of Sustainable Development in the Caribbean Region - Kingston, Jamaica, May 28-30, 1990.
- Conference on Environmental Impact Assessment in Human Settlements Planning and Development, Barbados, UNDP/UNCHS/CEA, October 15-19, 1990.
- Meeting of the Coordinators of the Regional Task Teams on Implication of Climate Change, Singapore, November 12-16, 1990, United Nations Environment Programme (UNEP).
- Workshop on Technological and Policy Implication of Effluent and Ambient Guidelines in the Caribbean, St. Lucia, June 5-6, 1991, CARICOM -Caribbean Environmental Health Institute/UNDP.
- WMO/UNEP/Intergovernmental Panel on Climate Change - Workshop of Task Force Working Group I (Science) on Emission of Greenhouse Gases - Shepperton, United Kingdom; July 8-11, 1991.
- International Symposium on Impacts of Climate Change on Ecosystems and Species, December 2-6, 1991, Amersfoort, Netherlands - IUCN, USEPA, WWF and Government of Netherlands.
- International Meeting on "Regional Programmes and Environmental Protection: An Exchange of Experiences Between Mediterranean and Caribbean Countries for the Preservation of their Seas" - Genoa, Italy, February 12-14, 1992 - United Nations Environment Programme and Government of Italy.
- World Coast Conference, Noordwijk, Netherlands, November 1-5, 1993.
- Intergovernmental Panel on Climate Change, Lead Authors' Meeting for the Second Assessment Report, November 9-11, 1994, Nairobi, Kenya.

- Government of Aruba/ UNDP, Human-Centred Sustainable Development in Small Island Developing States, December 7-9,1994, Aruba.
- Intergovernmental Panel on Climate Change (IPCC) and Environment Canada International Workshop on Adaptation to Climate Variability and Change, May 1998, San Jose Costa Rica.
- Economic Commission for Latin America and the Caribbean (ECLAC) Training Workshop on Disaster Assessment, Tortola, BVI, July 2000.
- CPACC/OAS/World Bank/CARICOM Workshop 'Adapting to Climate Change in the Caribbean', December 2001, Barbados.
- IOCARIBE International Meeting to Consider the Establishment of a Caribbean Tsunami and Coastal Hazards Early Warning System, Mexico City, June 1-3, 2005

Research, Publications and Technical Reports

Academic Dissertations

- Development and Change on the Barbados Leeward Coast: A Study of Human Impact on the Littoral Environment. PhD Dissertation, McGill University, 1987.
- Recent Climatic Fluctuation on a small Tropical Island - The Case of Barbados, West Indies. MSc Thesis, Memorial University, Newfoundland, Canada, 1979.

Peer-Reviewed Papers and Chapters in Books

- "The Deterioration of Caribbean Coastal Zones: A Recurring Theme in Regional Development" - in J. Cox and C. Embree, 1990 (eds.) Sustainable Development in the Caribbean, Institute for Research on Public Policy, Nova Scotia, Canada.
- "Predicted sea level rise in the Wider Caribbean: Likely Consequences and Response Options". Chapter in The Semi-enclosed seas, edited by Paolo Fabbri and Giuliano Fierro. Elsevier Science Publishers, U.K., 1992, pp. 52-78.
- "Coastal Zone Management in Barbados". Published in Intergovernmental Oceanographic Commission Report No. 103, UNESCO, Paris,1994.
- (Co-authored with J.B. Bird)"The Coasts of Barbados - An Economic Resource Under Stress". Resource Management and Optimization, Vol. 4, 1987. p. 569-583.
- (Co-authored with K.A. Atherley) "Regulatory Mechanisms in Coastal Zone Management: The Coastline Set-back Policy in Barbados" - Journal of Barbados Museum and Historical Society, Vol. 39, 1991.
- (Co-authored with K.A. Atherley and D.A. Smith "An Integrated Coastal Zone Management Programme for Barbados". In Magoon, O. et al. (editors) Coastal Zone '93, Vol. 3, American Society of Civil Engineers (ASCE), 1993, pp. 2653-2667.
- (Co-authored with K.A. Atherley and L. Brewster) "The Impact of Thermal Effluent Discharge on the Barbados Southern West Coast". In D. Barker and

D.F.M. McGregor (eds) Environment and Development in the Caribbean, UWI Press, Kingston, Jamaica, pp. 21-34.

- (Co-authored with D.A.Y. Smith, P.S. Warner, R.M. Sorensen and K.A. Atherley) "Submerged-Crest Breakwater Design Issues". In Proceedings of Coastal Structures and Breakwaters '95 Conference, Institution of Civil Engineers, London, U.K.
- (Co-authored with R.F. McLean and A.G. Suarez) "Small Island States". Chapter 9 in R.T. Watson, M.C. Zinyowera, and R.H. Moss (eds), The Regional Impacts of Climate Change: An Assessment of Vulnerability, Cambridge University Press 1998, pp. 331-354.
- (Co-authored with D.A.Y. Smith, P.S. Warner and R.M. Sorensen) "Development of a Sediment Budget for the West and South Coasts of Barbados". Coastal Sediments '99, International Conference on Coastal Engineering, U.K.
- (Co-authored with G. Sem) "Small Island States". Chapter 17 in J.J. McCarthy, O.F. Canziani, N.A. Leary, D.J. Dokken and K.S. White (eds), Climate Change 2001: Impacts, Adaptation and Vulnerability, Cambridge University Press 2001, pp. 843-876.
- (Co-authored with L. Bijlsma, C.N. Ehler, R.T. Klein, N. Mimura, R.J. Nicholls, E.Z. Stakhiv, R.K. Turner and R.A. Warrick) "Coastal Zones and Small Islands". Chapter 9 in R.T. Watson, M.C. Zinyowera, and R.H. Moss (eds), Climate Change 1995: Impacts, Adaptations and Mitigation of Climate Change, Scientific-Technical Analyses, Cambridge University Press, 1996, pp. 289-324.
- (Co-authored with R. Moore) "Adaptation to Global Climate Change: An Urgent Requirement for Small Island Developing States". Review of European Community and International Law (RECIEL), Vol 14 (2), 2005.
- (Co-authored with J. Charlery and K. Whitehall) "Exploring the Relationship Between the North Atlantic Oscillation and Rainfall Patterns in Barbados". International Journal of Climatology, 26 (6), pp819-827.

Non-Peer-Reviewed Papers

- "Beach and Coastal Zone Management Barbados: Legal Provisions and their Ecological Applications". McGill University, Tourism Research Working Paper Series, No. 5, July 1982.
- "The Impact of Tourism and Human Activity on the Shoreline Ecology of Barbados: Guidelines for Environmental Impact Assessment". Paper prepared for the Sixth Commonwealth Ecology Conference, University of Waterloo, Ontario, Canada, May 1981.
- "Sea-Level Fluctuations in the Tropics During the Last 140, 000 Years BP: A Review". McGill University, 1983.
- (Co-authored with J.B. Bird) "The Physical Characteristics of the Barbados Coast" - Paper presented to the International Geographical Union (IGU) Conference, Paris, June 1984.
- "A Review of Selected Aspects of the Geography of the Caribbean and their Implications for Environmental Impact Assessment". In Proceedings of the Caribbean Seminar on Environmental Impact Assessment, Barbados, 1985,

CIDA, U.W.I., CCA and Institute for Resource and Environmental Studies, Dalhousie University, Canada, pp. 10-18.

- "Global Sea level Rise: A Statement from the Island of Barbados"- Paper prepared for the Small States Conference on Sea Level Rise, Republic of the Maldives, November 1989.
- "Human Impact on the Coastal and Marine Zone, Barbados, West Indies" – Paper presented to International Conference on Environmental Impact Assessment - UNDP/UNCHS/CCA, Barbados, October 1990.
- (Co-authored with M. Hendry) "Shoreline Erosion and Accretion: A Key Factor for Sustainable Management of Caribbean Coastal Resources" Paper prepared for University of West Indies for Canada/UWI Institutional Strengthening Project in Sustainable Development, May 1991, pp. 91-102.
- "Caribbean Environmental Issues: A Review of Priorities". In Proceedings of the Caribbean Workshop on the Strategy for the Role of Trade Unions in Promoting Environmental Protection Barbados, September 9 - 13, 1991. Published by ILO, Geneva, Switzerland, 1992, pp. 55-63.
- "The Barbados Coast: A Management and Planning Evaluation" in El Manejo de Ambientes y Recursos Costeros en America Latina y El Caribe, Vol. 2. Published by the Department of Scientific and Technological Affairs, Organization of American States, Washington, D.C., October 1993.
- (Co-authored with L. Brewster, M. Wittenberg and K. Atherley) "Experimental Seagrass Transplantation: A Case Study from Barbados, West Indies"- Coastal Zone '95, Tampa Florida, American Society of Civil Engineers, July 1995.
- (Co-authored with K.A. Atherley and R.M. Sorensen) "Coastal Engineering Activities to Improve the Beaches of Barbados" – Fourth International Conference on Coastal and Port Engineering in Developing Countries (COPEDEC IV), Rio de Janeiro, September 25-29, 1995.
- One of 20 co-authors commissioned by IPCC to prepare peer-reviewed Technical Paper V: Climate Change and Biodiversity, WMO and UNEP, April 2002, 77 pp.

Training Modules

- Coastal Stability – A Training Module for Integrated Coastal Zone Management (Co-authored with Malcolm Hendry). Commissioned by the Environment Department of the World Bank, and the Swedish Agency for Research Cooperation with Developing Countries (SIDA-SAREC), 1995, 30 pp.
- "Selected Critical Factors, Processes and Related Concepts in Coastal Erosion: Teaching Module for National Focal Points in Guyana and Grenada"- Prepared for CPACC Component 6 – Vulnerability and Risk Assessment, October 2000.

Selected Technical Reports Prepared for the Government of Barbados

- A Proposed Moratorium on West Coast Development Between Brighton and Six Men's Bay, January 1989.
- Report on the effects of Hurricane Gabrielle on the Barbados East Coast, October 1989.
- Report on the Development of a Golfing Facility at Graeme Hall, Christ Church, Barbados, November 1989.
- Beach Changes Near the Outfall of a Power Generation Plant: Barbados Light and Power Site, Spring Garden, February, 1990.
- Beach Erosion at Weston, St. James, Barbados - The Effects of Swells, December 20 - 22, 1991. Prepared for Ministry of Housing and Lands, February 1992.
- Report on Coastal Area Damage and Impacts Sustained with the Passage of a Westerly Moving Tropical Wave on August 02-03 1995, and Recommendations for Remedial Action. Prepared for Ministry of Health and the Environment, August 1995 (Co-authored with Y. Chakalall and L.Toppin, Coastal Zone Management Unit).

Selected Consultancies and Associated Technical Reports

- Retained by Hunter and Associates & Procter-Redfern International Ltd, consultants to Barbados Coastal Conservation Pre-feasibility and Diagnostic Study, 1983-84. The Barbados Coastal Environment, Pre- 1950..
- Retained by the Mustique Company, Grenadines, to advise on coastal erosion and protection, April 1989. Beach Erosion in L'Ansecoy Bay, Mustique Island, April, 1989.
- Contracted by Ivor Jackson and Associates, Antigua, to evaluate impact of a proposed large breakwater in St. Lucia, August 1991 - Assessing the Impact of a Proposed Breakwater on the Beach and Nearshore System at Windjammer Landing Hotel, St. Lucia, 1991.
- Retained by Ivor Jackson and Associates, Antigua, to conduct EIA for Proposed Cruise Ship Pier and Coastal Reclamation, Basseterre, St. Kitts, October 1992.
- St. Kitts Southeast Peninsula Board and Banana Bay Development Ltd. - Coastal and Marine Impact Assessment of Proposed Banana Bay Resort Hotel and Village, Banana Bay, St. Kitts, August 1993.
- Trafalgar Developments Ltd. and Ivor Jackson and Associates, Antigua - An Evaluation of Coastal and Marine Impacts of Proposed Hyatt Regency Resort, Friar's Bay, St. Kitts, October 1993.
- Contracted by Canzone del Mare, Italy - Resort and Marina Development, Farley Bay, Antigua: A Coastal and Marine Environmental Impact Assessment, June 1994.
- Contracted by Anse Chastanet Hotel, St. Lucia - Environmental Impact Assessment of Proposed Coastal and Marine works, Anse Chastanet Hotel, St. Lucia, August 1994.

- Retained by Carleon Investments Ltd., St Kitts, - An Evaluation of a Proposed Resort Complex (Cable Bay Hotel and Casino), North Frigate Bay, St. Kitts, December 1994.
- Contracted by World Wildlife Fund/USAID/ENCORE - Assessing the Need for Coastal Protection Works, Scott's Head Isthmus, Dominica, W.I., December 1994/January 1995. USAID Cooperative Agreement No. 538-0171-A-00-3231-00.
- Retained by Trafalgar Developments Ltd, St. Kitts, - Evaluation of the Impact of a Sediment Plume at Horizons Development, Frigate Bay, St. Kitts, September-October 1995.
- Retained by Government of St. Kitts (National Emergency Management Agency, Ministry of Tourism and Environment) – An Assessment of Beach Changes in St. Kitts Following the Passage of Hurricanes Luis and Marilyn, November, 1995-January 1996..
- Consultant to Inter-American Development Bank to prepare Technical Cooperation Profile for Coastal Resources Management in the OECS, December, 1995 to January, 1996.
- Consultant to Government of St. Vincent and the Grenadines, recruited through the Natural Resources Management Unit of the Organization of Eastern Caribbean States – Technical Reconnaissance Survey of Selected Beaches and Coastal Areas in St. Vincent and the Grenadines, April 1996-March 1997 (in association with R.L. Bascom).
- Retained by the Mustique Company Ltd., as consultant to Plantain Bay project, Mustique: Review of Engineering Options for Protection of Plantain Bay, January, 1997.
- Consultant to Government of Antigua and Barbuda as Coastal Processes Specialist on Asian Village and Resort Development (Sub-contracted to Ivor Jackson and Associates, May 1997).
- EIA Consultant and Coastal Specialist to Island Dredging Co. Ltd., Grand Cayman, on the Proposed Expansion and Redevelopment of Vieux Fort, St.Lucia, 1996.
- Anquilla Coastal Dune Restoration Project, 1998 (In association with Smith Warner International), UNEP, 1998.
- Client: University of the West Indies Center for Environment and Development (UWICED), 1998. Preparation of Blueprint and Guide for Component 3 - Inventory of Coastal Resources and Uses - Caribbean Planning for Adaptation to Global Climate Change (CPACC), funded by the Global Environment Facility (GEF) of the World Bank.
- Montego Bay Redevelopment, Jamaica, Coastal Planning Evaluation. Retained by Smith Warner International, 1999.
- Technical Review of "Strategic Action Programme for International Waters of the Pacific Islands", conducted on behalf of the United Nations Development Program (UNDP), for submission to the Global Environment Facility (GEF), May 1998.
- Project Leader, Alleyne Planning Associates, Barbados, for the World Bank funded project "Caribbean Planning for Adaptation to Global Climate Change,

component 3, 1999-2001 (Client: University of the West Indies, Center for Environment and Development, Regional Project Implementation Unit, Barbados).

- Retained by Alleyne Planning Associates, Barbados, to review Coastal Management Plan for North-west Coast of Nevis, April 2002.
- Evaluation of Coastal Erosion on the South-West Coast of Anguilla, Following the Passage of Hurricane Lenny, OECS-NRMU (In association with Smith-Warner International), 2002.
- Caribbean Planning for Adaptation to Global Climate Change (CPACC): Technical Review of Outputs of Component 6 – Coastal Vulnerability and Risk Assessment, August 2002.
- Retained by Smith Warner International, 2005: St. Vincent and the Grenadines Coastal Zone Management Programme (to be completed October 2005)
- Retained by Government of Anguilla to review EIA, 2006.
- Retained by Smiths Gore to review EIA for Beef Island Development Project, 2006.

Invited Presentations

"The Public Relations Practitioner as environmentalist" - Address to Graduates of Dynamics of Public Relations Course, U.W.I., Extra-Mural Department, Barbados, December 7, 1988.

"Coastal Construction and Coastal Erosion" - Delivered to 5th Annual Environmental Impact Assessment Workshop, CERMES, U.W.I., Cave Hill, March 30, 1989.

"Guidelines for the Design and Construction of Structures in the Coastal Zone" - Delivered to joint Meeting of Barbados Institute of Architects and Barbados Town Planning Society, Hilton Hotel, Barbados, June 9, 1989.

"The Role of Information in Environmental Management" - 25th Anniversary Lecture Series, Barbados Community College, January 13, 1994.

"Coastal Zone Management in the Context of Sustainable Development" - National Symposium, Human-Centred Sustainable Development in Small Island Developing States, Aruba, Sponsored by Government of Aruba and UNDP, December 9, 1994.

"Conducting an Inventory of Coastal Resources and Uses: Critical Considerations" –CPACC/OAS Workshop on Methodologies for Coastal Inventories and Information Management, Barbados, May 18-20, 1998.

“Methodological Approaches for Assessing Coastal Erosion and Flooding in Guyana and Grenada” – CPACC Component 6 Training Seminar, Grenada, July 2000.

“Impact of Hurricanes on Coastal and Marine Resources” – ECLAC Training Seminar on Disaster Assessment, Port of Spain, Trinidad, July 2000.

“Oceanographic and Related Considerations for Coastal Engineering Design in the Small Island States of the Caribbean” – IOCARIBE/Global Ocean Observing System (GOOS) Seminar, Miami, Florida, April 4, 2001.

“Sustainable Tourism and the Environment in the Caribbean” – International Labour Organization (ILO) Training Seminar, Barbados, September 5-7, 2001.

“The Likely Consequences of Projected Climate Change: What are the Risks Confronting the Caribbean?” – USGS/IOCARIBE/NOAA Risk Management Workshop, Miami, Florida, December 19-22, 2002.

“Some Implications Of Global Climate Change For The Small Island States Of The Caribbean” – Preserving Paradise Lecture Series in honour of the late Dr. Colin Hudson, Barbados March 8, 2005. Sponsored by the University of the West Indies Dept. of Biological Sciences and the Barbados Museum and Historical Society.

“Tapping the Science and Technology Expertise of Tertiary and Research Institutions in SIDS through Cooperation and Partnerships” – UNDP Workshop on The Role of Science and Technology in SIDS, Singapore, August 2004.

“Managing Coastal Hazards in Barbados” - IOCARIBE International Meeting on Tsunamis and Coastal Hazards, Mexico City, June 2005.

Academic Research Supervision

- External Supervisor for Yolanda Toppin-Alleyne, PhD, Lincoln University, Canterbury, New Zealand. Dissertation title: “Coastal Environmental Impact Assessment as Argumentative Practice in Barbados” (Successfully completed in 1998).
- External Adviser for Vernese Inniss, PhD Candidate, Center for Energy and Environmental Policy, University of Delaware. Dissertation title: “The Case for an Alternate Approach to Managing the Atmospheric Commons: Small island States and the Climate Change Regime” (Degree awarded 2004).

- Supervisor for Vimla Roopchand, MSc, Natural Resource Management, CERMES. Internship with the Hydrometeorological Services Department, Ministry of Agriculture, Guyana (Completed 2005).
- Supervisor for Denyse Mahabir, MSc, Natural Resource Management, CERMES. Title of Research Paper: “An Assessment of the Vulnerability of the Cocal Area, Manzanilla, Trinidad, to Coastal Erosion and Projected Sea Level Rise, and Some Implications for Land Use” (Degree awarded 2003).
- Supervisor (with Prof. Wayne Hunte) for Angelique Brathwaite, MPhil, Faculty of Science and Technology, UWI, Cave Hill. Dissertation Title: “The Distribution and Frequency of Coral Diseases in Barbados, W.I., 2001-2002” (Projected submission date 2005).
- Co-Supervisor with Prof. Leo Moseley and Dr. John Charlery (UWI, Cave Hill) for doctoral student Kim Whitehall, Dept of Physics, UWI, Cave Hill. Research field: Refining a regional climate model for projecting future climate changes in the Caribbean (research ongoing).
- Has also served as *External Examiner* at various times, for post-graduate research submitted by students at all three campuses, prior to taking up full time academic appointment with the UWI.