



David Smith

CO-ORDINATOR, INSTITUTE FOR SUSTAINABLE DEVELOPMENT

TEACHING, LEARNING AND STUDENT DEVELOPMENT

Staff of the Institute for Sustainable Development (ISD) currently supervise 19 postgraduate research students. The majority of the masters' students intend to upgrade to PhD. ISD's Centre for Environmental Management operates a MSc programme; with a current course enrolment of 15 students, who are expected to graduate in 2017. In addition to the MSc Environmental Management, staff lecture in the BSc Life Sciences, BSc Gender, MSc Tourism and Hospitality Management, MSc National Security and Strategic Planning, MSc Occupational and Environmental Safety and Health, and MSc Sustainable Tourism.

The ISD has research and teaching collaboration programmes with the US Naval War College, the University of Surrey, Florida International University, the Police Service of Northern Ireland, Avon and Somerset Constabulary, the Jamaica Constabulary Force and the Jamaica Defence Force, coordinated by Professor Anthony Clayton.

Dr Carolyn Hayle developed a course on quarry management with the Ministry of Science, Technology, Energy and Mathematics (STEM) and the Commissioner of Mines in Jamaica; which will be offered by the Department of Mining and Geology.

Dr David Smith helped to develop the concept paper for the SUNY-UWI Center for Leadership and Sustainable Development and is one of the UWI representatives on the Center's Board. The ISD and The UWI Open Campus with the support of the United Nations and the Government of Spain, developed several online courses on sustainable development topics, which were uploaded to servers at the Open Campus and the University of South Pacific (USP) allowing the Pacific Centre for Sustainable Development to deliver those courses at USP. Some of these courses will also be offered by the SUNY-UWI Center.

RESEARCH AND INNOVATION

The ISD broke ground for the Zero Energy Building (ZEB) in May 2016. Keynote speaker, Jamaica's Minister for Energy, committed the Government of Jamaica to achieve 100% ZEB by 2050. Professor Clayton is the Principal Investigator for the project which is funded by the Global Environment Facility, the Inter-American Development Bank and The UWI. In July 2016, the project team briefed the Jamaican Minister for Local Government and the Parish Councils in Jamaica on ensuring that ZEB becomes the standard for building in Jamaica. Implementation of this project is facilitated by adjunct staff member, Professor Tara Dasgupta.

In June 2016, the ISD and the Caribbean Policy Research Institute (CAPRI) organised a High-Level Forum "*Leveraging the Sustainable Development Goals for an Energy Secure Caribbean*," supported by a grant from the UN Sustainable Development Solutions Network (SDSN). It was attended by the Minister of Energy for St. Kitts and experts in energy from CARICOM, the Jamaica Public Service Company and from the Caribbean private and public sectors as well as the Cave Hill and St. Augustine campuses. Professor Jeffrey Sachs, Director of the

Institute for Sustainable Development

Center for Sustainable Development at Columbia University, New York and Director of the SDSN spoke at the forum and met with the Jamaican Prime Minister, several cabinet Ministers and The UWI Vice-Chancellor, Professor Sir Hilary Beckles.

Dr Barbara Carby and Dr David Smith are the Principal Investigators for the Enhancing Knowledge and Application of Comprehensive Disaster Management (EKACDM) project, funded by Global Affairs Canada. Implementation of this project is aided by ISD adjunct faculty, Jeremy Collymore. During this year, case studies on disaster management best practice were produced and presented at the Caribbean Conference on Disaster Management held in the Bahamas in 2015. Under the same project, the Disaster Risk Reduction Centre (DRRC) of the ISD worked with The UWI's Seismic

Research Centre (SRC) to develop software that assists Caribbean countries to estimate disaster risk due to earthquakes. The software, developed in association with the National Center for Supercomputing Applications at the University of Illinois, is currently applicable to Barbados, as well as Kingston and Portmore in Jamaica and covers a population of about one million people. It can estimate structural damage, casualties, damage to and demand on health facilities as well as estimate the impact of retrofitting on disaster risk. The software can be used for teaching and creating realistic simulations for disaster response exercises and disaster risk reduction. The DRRC will work with the SRC to train Caribbean planners and disaster managers in the use of the software. It is hoped that using the software will help the Caribbean to reduce the risk of disasters due to earthquakes.

ISD is working with East Tennessee State University, The UWI Department of Geography and Geology at Mona, and the Department of Geography at St Augustine to map flood hazards in Jamaica.

OUTREACH

National and Regional Development

ISD staff sit on a variety of national bodies including the Jamaica Red Cross, the Board of the Student Loan Bureau of Jamaica, the Environmental Foundation of Jamaica and the Agricultural Credit Board of Jamaica. Dr Hayle chairs the University Council of Jamaica and Professor Clayton chairs the Broadcasting Commission for Jamaica.



Sod turning for Net Zero Building



Professor Jeffrey Sachs, Director of the Center for Sustainable Development at Columbia University, New York and Director of the SDSN meets with UWI Vice-Chancellor Professor Sir Hilary Beckles

Professor Clayton was the lead author of the Jamaican National Security Policy. He participated in briefing and training sessions for the Jamaica Defence Force, Jamaica Constabulary Force (JCF), the Jamaican Passport Immigration and Citizenship Agency, other Jamaican government agencies and regional police and security forces. During the year, he carried out two Operational Reviews of the JCF and a Policy Review of the Jamaican Department of Correctional Services for the Ministry of National Security. He is the Deputy Chairman of the JCF Oversight Committee.

ISD staff are members of the Hazard Risk Reduction and Climate Change Adaptation Thematic Working Group for Jamaica, the Steering Committee for the Adaptation Fund Project On Climate Change Adaptation of the

Planning Institute of Jamaica, the Technical Committee of the Jamaica Red Cross on Capacity Building for Emergency Response in the Americas, the Rule of Law Committee for the Government of Jamaica, the Cannabis Industry Advisory Board, Jamaica, the Jamaica National Nutraceuticals Committee and the Scientific Advisory Committee for the UNESCO National Committee for Jamaica.

ISD staff also contribute expert opinions to the media on topical issues and have published a total of nine book chapters and journal articles this year. Professor Clayton is a founding editor and member of the Editorial Board of the Caribbean Journal of Strategic and Security Studies and is a reviewer for four journals. Dr Smith sits on the Editorial Board of Caribbean Quarterly.

Internationalisation

ISD staff work with a range of international and regional bodies. Professor Clayton is a Fellow of the Caribbean Academies of Science and The World Academy of Sciences. He is Chairman of the Membership Advisory Committee in Social and Economic Sciences for the World Academy and a member of the Committee for the Celso Furtado Prize in Social Sciences. Dr Smith is a member of the group of fifteen independent experts who will draft the Global Sustainable Development Report for 2019, chairs the UN Sustainable Development Solutions Network in the Caribbean and is a member of the SDSN Academic Committee. Dr Carby chairs the ICSU Committee on Disaster Risk Reduction for Latin America and the Caribbean, and is a member of the International Review Panel for ICSU's global programme on Integrated Research on Disaster Risk. She is a member of the Thematic Working Group on reducing vulnerability and managing risk for the World Humanitarian Summit (WHS) and on the team that developed the report "Restoring Humanity Global Voices Calling for Action" presented at the WHS Thematic Consultation in Berlin, in September 2015.

ISD staff made expert presentations in several international and regional fora including the United Nations High Level Political Forum on Sustainable Development, the World Humanitarian Summit, the CDEMA regional meeting on Comprehensive Disaster Management, and the Commonwealth Parliamentary Association's Regional Workshop on Sustainability, Energy and Development.



High Level Energy Forum