

***Globalization, Climate Change and Rural Resilience:
The Challenge of Sustainable Development in the Caribbean and Beyond***

**May 9-11, 2012
Kingston, Jamaica
Mona Visitor's Lodge and The Jamaica Pegasus**

CONFERENCE BIO NOTES ON PRESENTERS

DAY 1

Guest Speaker Mr Ede Ijjasz-Vazquez :

"Multiple Dimensions of Resilience in Rural areas and Small islands - Lessons from Global Experience and World Bank perspectives".

Brief Bio

Ede Ijjasz is the World Bank's Director for Sustainable Development of the Latin America and Caribbean Region. This department addresses the areas of infrastructure (transport, energy, water supply and sanitation, and other municipal services), environment and climate change, social development, agriculture and rural development, disaster risk management, and urban development. The Sustainable Development Department of the LAC region has a diversified active portfolio of about \$17 billion.

Prior to this position, Mr. Ijjasz was the Sector Manager of the Sustainable Development Unit for China and Mongolia, located in the World Bank office in Beijing from 2007 to 2011. Between 2004 and 2007, Mr. Ijjasz was the manager of the Water and Sanitation Program (WSP) and the Energy Sector Management Assistance Program (ESMAP). WSP and ESMAP are two of the longest-running global trust-funded trust fund partnership programs administered by the World Bank, supporting technical assistance and capacity building activities in the water, sanitation and energy sectors, with more than 150 staff in field offices located in 25 countries.

Prior to this position, Mr. Ijjasz was the team leader for the Corporate Environment Strategy Implementation Team and acting sector manager of the central Environment Department in charge of World Bank environmental policies and global programs. Prior to this position, Mr. Ijjasz was a Senior Water and Sanitation Specialist with the World Bank's Europe and Central

Asia region, and program team leader for water and sanitation projects in Central Asia, the Caucasus and the Russian Federation. Between 1997 and 1998, Mr. Ijjasz was an environmental specialist with the World Bank's Latin American region, working on pollution control projects, safeguard policies, and disaster management projects.

Prior to joining the World Bank, Mr. Ijjasz was a Senior Associate with ICF Kaiser International where he provided technical and policy advisory services to the U.S. Environmental Protection Agency on pollution issues, and led the preparation of environmental impact assessments of large infrastructure projects in Latin America and the United States.

Mr. Ijjasz is currently a lecturer with the Environmental Science and Policy Master's Program of the Johns Hopkins University, where he teaches contaminant fate and transport modeling and policy. Between 2009 and 2011, he taught a course in Sustainable Development at Tsinghua University in Beijing. Mr. Ijjasz has a Ph.D. and a M.Sc. from the Massachusetts Institute of Technology (MIT) in civil and environmental engineering, with specialization in hydrology and water resources. He has several publications in civil engineering, physics and geomorphology scientific journals.

Keynote Dr Clare Goodess:

The Challenges of Integrated Assessment Studies: A Mediterranean Perspective.

Climate Research Unit, University of East Anglia, School for Environmental Sciences

Brief Bio

Dr Clare Goodess is a Senior Researcher and Research Manager with 30 years experience of contract research in the internationally-renowned Climatic Research Unit (CRU) at the University of East Anglia in Norwich, UK. Her main current research interest is in the development of projections of regional climate change over the coming century and working with users and decision makers to ensure that these are used effectively in climate change impacts, adaptation and vulnerability studies. She has a particular interest in past and future changes in the occurrence of extreme weather events. Clare has co-ordinated and worked on many major UK and European climate change projects.

Amongst many UK activities, Clare has contributed to assessments of the impacts of climate change on UK health (for the Department of Health) and the insurance industry (for the Chartered Insurance Institute). Her main UK research interests, however, lie in providing climate information and projections for use in impacts and adaptation studies on the built environment and infrastructure. Within the Building Knowledge for a Changing Climate programme, she coordinated the EPSRC BETWIXT project as well as the CRU contribution to the CRANIUM project (which focused on risk, uncertainty and decision making) - and led CRU involvement in an EPSRC project on the use of UKCP09 results in the building design field, together with ongoing work on development of a climate scenario generator for urban areas in the EPSRC ARCADIA project (Adaptation and Resilience in Cities: Analysis and Decision making using Integrated Assessment). Clare was a member of the UKCP09 steering group and one of five international reviewers of these new national probabilistic projections.

At the European level, Clare was the coordinator of work on the production of probabilistic regional climate projections in the ENSEMBLES FP6 integrated project (having previously coordinated the FP5 STARDEX project on statistical downscaling). She was the co-ordinator of integrating (indicator-based) case-studies within the CIRCE FP6 project on impacts of climate change in the Mediterranean which ended in June 2011. She was an external advisor on the PESETA project and a partner in the larger follow-on ClimateCost FP7 project on estimating the full costs of European climate change. She is currently an external advisor on the PESETA II project. She is also involved in the new FP7 CLIM-RUN project on Climate Local Information in the Mediterranean region: Responding to User Needs. Her role in CLIM-RUN is the coordination of bottom-up case studies on identifying and meeting user requirements for climate services. Within the FP7 CLARIS-LPB project, she is co-ordinating work on the linkages between climate modeling and impacts assessments for La Plata Basin in South America.

Clare is a lead author for the IPCC Special Report on Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation (SREX). The summary for policy makers was released in November 2011 and the full report in March 2012. She has recently completed a review on “How is the frequency, location and severity of extreme events likely to change up to 2060?” as part of the UK Foresight Global Migration project.

Clare gave invited presentations at World Climate Research Programme (WCRP) workshops on “Metrics and methodologies of estimation of extreme climate events” (Paris, September 2010) and “Regional climate: facilitating the production of climate information and its use in impact and adaptation work” (Lille, June 2010). Clare was one of the co-convenors of a session on “Meeting the needs for integrated climate science, information and capacity building on regional scales: regional climate variability and change in Europe” as part of the WCRP Open Science Conference, Denver, October 2011. She was also an invited participant in the First International Conference on Climate Services, held in New York, October 2011.

Clare hosted a study visit to the CRU by Dr T Stephenson funded by the Caribbean Community Climate Change Centre, Belize and the Department of Physics, University of the West Indies, Mona, Jamaica. A direct outcome of this study visit was a joint paper on detecting inhomogeneities in Caribbean temperature data using sea-surface temperatures published in 2008. Most recently, Clare is part of a UK-Caribbean consortium which has obtained funding from the UK Climate and Development Knowledge Network for a new project called CARIWIG: Caribbean Weather Impacts Group – supporting risk based decision making.

CONFERENCE BIO NOTES ON PRESENTERS

DAY 2:

Keynote Dr. Robin M. Leichenko:

Globalization, Climate Change and Rural Resilience: Emerging Double Exposure Challenges and Opportunities

Dr. Robin M. Leichenko is Associate Professor in Geography and Director of the Initiative on Climate and Society at Rutgers University. Prof. Leichenko's current research focuses on the economic and social dimensions of climate change impacts, vulnerabilities, and adaptation in coastal cities and regions. She is serving as review editor for Working Group II of the Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC). She is also serving on a U.S. National Academies panel on Climate Change and Social and Political Stresses. Her 2008 book, entitled, *Environmental Change and Globalization: Double Exposures* (Oxford University Press, co-author Karen L. O'Brien), received the Meridian Book Award for Outstanding Scholarly Contribution in Geography from the Association of American Geographers. Leichenko earned a Ph.D. in Geography (1997) and an M.A. in Economics (1995) from Penn State University. She also holds an M.A. in Geography (1991) from the University of Colorado-Boulder, and a B.S. in English (1989) from the University of Wisconsin-Madison

CONFERENCE BIO NOTES ON PRESENTERS

For Chair: Ms Claire Bernard: Director Sustainable Development and Regional Planning Unit, PIOJ

Patricia Northover and Kevon Rhiney : *Vision 50/50- Tackling Constraints and Promoting Pathways to Rural Resilience*

Brief Bio

Dr. Patricia Northover specializes in Development studies and is a Senior Fellow at the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES, UWI, Mona). She received her doctorate in economics and philosophy at the University of Cambridge.

Dr. Northover has been a Fellow of Girton College at the University of Cambridge and a Visiting Fellow at Duke University with the “Race, Space and Place” project. She is the author and co-author of several articles in the philosophy of economics and Caribbean development, published in the Cambridge Journal of Economics, Cultural Dynamics, Caribbean Dialogue and Social and Economic Studies. She has recently published with Michaeline Crichlow, *Globalization and the Post-Creole Imagination: Notes on Fleeing the Plantation*. Durham: Duke University Press, 2009. Her forthcoming book is *Growth Theory: Critical Philosophical Perspectives* (Routledge).

The main areas for her research turn on the problem of freedom and development in contemporary societies and for small states. Her current research interests include: Globalization and Postcolonial studies; Governance and the Politics of Development; Agrarian Change and the Spatial Politics of ‘Development’; The Political Economy of Sugar and Change; Poverty, gender and rural development policy; Climate change and rural resilience in small island states; philosophy and economics.

Kevon Rhiney Ph.D, UWI, Dept. Geography & Geology

Brief Bio:

Kevon Rhiney graduated from The University of the West Indies (UWI) with a PhD in Geography (2010). His dissertation examined the nature and extent of the market linkages that

exist between the tourism and agricultural sectors in Jamaica, using the resort town of Negril as a case study. He currently lectures Human Geography at the UWI Mona Campus situated in Kingston, Jamaica. He also holds the position of President for the Jamaican Geographical Society (JGS) and is also a Research Fellow for the Centre for Leadership and Governance, UWI.

His research interests span the rural-urban nexus and include rural sustainable development, agri-food systems and rural livelihoods, value and commodity chains, climate change and adaptation; market liberalization and food security, globalization and governmentality, tourism development and planning, and participatory urban planning and governance.

Hopeton Peterson and Doneika Simms: *Strengthening the Capacity for Climate change Resilience in Jamaica's rural areas.*

Brief Bio

Hopeton Peterson is the Manager of the Sustainable Development and Regional Planning Division at the PIOJ. His qualifications include a B.A. in Geography, University of the West Indies, an M.A. in Sustainable Development, Brandeis University (USA), and an M.B.A. from the Florida International University.

He has received specialised training in Post-Disaster Impact Assessment, Geographical Information Systems, Multi-Hazard Risk Assessment, and Education. Mr. Peterson's current research interests are sustainable development for the environment, natural resources management at the community level, climate change adaptation, and disaster risk reduction. He has represented Jamaica at numerous international meetings and conferences covering the areas of environment and climate change, and was a part of the ECLAC team conducting post-disaster impact assessments in Cayman Islands and Turks and Caicos.

Brief Bio

Doneika Simms is currently the Urban and Regional Planner in the Sustainable Development and Regional Planning Division at the PIOJ. She hails from the town of Darliston, in the beautiful parish of Westmoreland. She holds a Bachelor of Arts Degree in Geography, and a Master of Science in Urban and Regional Planning, from the University of the West Indies, Mona Campus and St. Augustine Campus, respectively.

Her current research interests include climate change and coastal areas, disaster risk management for small island states, and sustainable development of urban areas. In her spare time, she enjoys taking nature trails, swimming, scuba diving and exploring all forms of nature. Ms. Simms also takes delight in the preservation and conservation of natural resources and is therefore an Environmentalist at heart.

Leslie Simpson: *Promoting Climate Smart Agriculture for Food Security in the Caribbean*

Brief Bio

Dr Simpson is employed as a Natural Resources Management Specialist with the Caribbean Agricultural Research and Development Institute (CARDI) and is a former CARDI Representative in Jamaica.

He holds a PhD in Agriculture, majoring in Soil Science, from the University of the West Indies. He is a professional agriculturist and project manager with over 30 years experience in agricultural research, teaching, administration and production in several Caribbean countries. He has held senior positions at the National Agricultural Research Institute (NARI) in Guyana, Faculties of Agriculture at the University of Guyana (UG) and the University of the West Indies (UWI), and the Caribbean Community (CARICOM) Secretariat.

In 2001, he attended the first Beahrs Environmental Leadership Programme at the University of California, Berkeley and was exposed to all aspects environment management including global climate change and its possible effects on the physical environment. Since that time he has been representing CARDI on all discussions related to climate change and agriculture in the Caribbean. He is the author of several publications in international, regional and national journals.

Ulric Trotz on: *Building Climate Resilient Rural Communities in the Caribbean* —

Brief Bio

Dr Ulric Trotz-Science Adviser, Caribbean Community Climate Change Centre, Belize

A Scientist by training, Dr. Trotz commenced his University education in Edinburgh, and attained his Doctorate in Organic Chemistry in Toronto, Canada. His career experiences and achievements are wide and varied. He has worked as Director, Science & Technology Division,

Commonwealth Secretariat, 1993 to 1997; as Secretary, Commonwealth Science Council and Science Adviser to the Commonwealth Secretary General, 1991-1997; Secretary-General, National Science Research Council (NSRC), Guyana, 1979-1991; Dean, Faculty of Natural Sciences, University of Guyana 1976- 1979; Director, Institute of Applied Sciences and Technology in Guyana, 1980-1991.

Since 1997, Dr Trotz, in his capacity as Manager for the GEF-funded CPACC and MACC projects, and the CIDA-funded ACCC project, has been giving direction to the region's efforts to build capacity for climate change adaptation. He has presented more than seventy (70) papers/lectures at a range of regional and international fora on climate change issues. Recently Dr Trotz assumed the post of Science Adviser to the recently established Caribbean Community Climate Change Centre. He has been publicly recognized in his country of birth, Guyana with the Golden Arrow of Achievement (AA) in National Honours in 1983 for long and distinguished service in Science and Research., and more recently in Barbados, being inducted as an Honorary Distinguished Fellow of the University of the West Indies. Dr Trotz served as a member of the group of scientists awarded the Nobel Prize in 2008 in the capacity of a Review Editor for Chapter 16 on Small Island Developing States in the Fourth Assessment Report of the Intergovernmental Panel of Climate Change (IPCC).

**BLOCK A- Building Rural Resilience- Understanding and Transforming vulnerability
Chair: Dr Sandra Chadwick- Parkes**

Jose Molinelli , David Pijawka, Martin Gromulat and Bjoern Hagen: - *Building resilience to Vulnerability in Small Island States (SIS)*

Brief Bio

José Molinelli is Professor of the Environmental Sciences Program at the University of Puerto Rico in Río Piedras. He has conducted extensive work concerning multiple natural hazard evaluation and mitigation within the context of tropical islands. Dr. Molinelli has published numerous government reports and technical studies in these areas at the community, municipal, and state government level, as well as multiple environmental impact and planning studies dealing with watershed processes in mountain and karst regions. He has been recognized for his excellence in teaching, as well as for his proactive actions towards environmental defense and sustainable planning.

David Pijawka is Professor of Geographical Science and Urban Planning at Arizona State University and Director of the urban planning program. He is a Senior Sustainability Scientist at the Global Institute of Sustainability and a Faculty Affiliate in the schools of Transborder Studies and Public Affairs and several research centers. He has published books, scientific papers, and government reports on hazards and risk assessment, environmental impacts, sustainability sciences on energy, ecosystem services, and urban design. He has been recognized by many national awards for his work in environmental justice, sustainable design, and environmental policy. He now also teaches the country's largest course in urban sustainability at Arizona State University.

Martin Gromulat, Esq., is an attorney and entering Ph.D. student in Urban Planning Policy at Arizona State University's School of Geographical Sciences and Urban Planning. His research interests include resiliency and adaptation, sustainable urbanism, water law, policy development and implementation, and tribal planning. He is completing his Master's studies with a focus on environmental planning policy, and has been involved with numerous nonprofit and governmental agencies on issues of land conservation and environmental policy. He recently presented at the National League of Cities Congress of Cities and Exposition 2011 on Resiliency Planning for Neighborhoods: Principles, Indicators, and Illustrations, and on Comprehensive Planning at the Navajo Nation Post Local Governance Act Certification Chapter Summit.

Bjoern Hagen is a Ph.D. candidate in Environmental Design and Planning at Arizona State University. He received his Master in urban planning from the Technical University Kaiserslautern, Germany focusing on sustainable urban and transportation planning in low density environments. He has worked on projects focusing on sustainable urban and regional development with the Development Agency of Rhineland Palatinate and the redesign of the UNESCO World Heritage site Völklingen Ironworks towards a sustainable future. For the past three years, he has conducted research in the areas of climate change mitigation and adaptation, public risk perception, and risk communication. By studying the nature of public perceptions of global climate change in different countries and over time, his research contributes to improving

climate change communication efforts to reduce greenhouse gas emissions and to increase the adaptive capacity and resiliency of urban environments.

Christine A. Clarke: *Climate Change, Institutions and the Implications for Rural Resilience*

Brief Bio

Dr. Christine Clarke obtained her Ph.D. from Rice University with a specialization in Public Finance. She has served as Director of Economic Planning & Research at the Planning Institute of Jamaica. She was previously Economic Advisor to the Director General of the PIOJ and Project Development Specialist for Vision 2030 Jamaica.

Dr. Clarke's economic research covers a wide range of topics including the Drug/Murder Nexus in Jamaica, The Demand for M1 in Jamaica and Old Age Assistance in the United States. She co-authored the Minott Report 2005 which is the most comprehensive review of educational achievement for Grades 11, 12 and 13 in Jamaica. More recently her work has related to issues such as the economic impacts of climate change and fiscal sustainability issues in the Caribbean. Dr. Clarke has served as a Co-opted Member on the Board of Directors of Graduate Studies and Research Entrepreneurship at the University of Technology (UTECH) and the Statistical Institute of Jamaica (STATIN). Currently she lectures and researches at the University of the West Indies in the Department of Economics. She reads spy novels and relaxes along Jamaica's northeast coast in her very spartan spare time.

Ayesha Constable: *A Bottom-up Approach to Understanding Climate Change: Perceptions of Small Farmers in Sherwood Content, Trelawny*

Brief Bio

Ayesha Constable is an MPhil Student in the Geography and Geology Department at UWI, Mona. I received my first degree in Geography with First Class Honors from the University of the West Indies in 2005. I am currently doing research on agriculture and global change. The title of the dissertation is "Adaptability and Vulnerability of small farmers in Sherwood Content, Trelawny to Global Economic and Climate Change". My other research interests include Theology and Climate Change and Indigenous Knowledge for Climate Change Resilience.

April Karen Baptiste: *Who are the most vulnerable to climate change? Using video to explore the fishing communities of Trinidad and Tobago*

Brief Bio

April Karen Baptiste graduated from The University of the West Indies, St. Augustine, Trinidad with both a B.Sc. in Chemistry and Management (2002) and a M.Sc. in Environmental Management (2004). Being awarded a Fulbright Scholarship in 2004, she moved to the US where she attended and graduated from State University of New York, College of Environmental Science and Forestry with a Ph.D. in Environmental and Natural Resource Management (2008). In January 2008, April received a Ford Foundation Postdoctoral fellowship in the African American Studies Department at Syracuse University. She is currently an Assistant Professor at Colgate University engaging students in both interdisciplinary teaching and research in the Environmental Studies Department.

April's research focus looks at environmental issues in the Caribbean examining the intersection between environmental psychology, environmental justice and natural resource management. Her latest research project is designed to examine the perceptions of different marginalized groups within the Caribbean to climate change and their methods of adaptations.

In addition to her Fulbright Scholarship, April has been named a TED (Technology, Entertainment and Design) Senior Fellow 2010-2013. She is engaged in scholarship in action which incorporates research into community based activities. Currently she is working through YEDCo (Youth Environmental and Development Coalition – an NGO which she founded and now chairs) to develop a youth environmental education program for her hometown in Trinidad. Additionally as Director of Environment for The Community HUB (a social NGO), based in Trinidad she is spearheading together with a team, an electronic waste management program for the island.

BLOCK B-Reframing rural resilience: Economic Strategies for Successful Adaptation

Chair: Prof. Claremont Kirton

Jason Gordon: *Impact of Climate Change of Jamaica's Hotel Food Supply Chains and on Farmers' Livelihoods*

Brief Bio:

Jason Gordon is an Independent Consultant to the International Center of Tropical Agriculture (CIAT), based in Cali, Colombia. He holds a Bachelor of Arts Degree in Geography from the

University of West Indies, Mona. Mr. Gordon has also acted as Visiting Researcher to the CIAT and has coordinated the organization's field research operations in Jamaica in 2009. He has recently been employed to the Forestry Department of Jamaica and has been charged to uphold the department's mission to manage the Jamaican forest ecosystems according to its national environmental policies.

Joyelle Clarke: *More than Farmers? Reframing Rural Resilience through non-farm livelihood strategies in Post-Sugar St. Kitts*

Brief Bio

Joyelle Clarke is a fulltime final year PhD student in the Department of Geography and Geology UWI Mona, Kingston Jamaica. Her thesis is entitled: "Land and Livelihood in St. Kitts: Global Change and Local Vulnerability."

Dianne Gordon: *Reframing Rural Resilience: The Role of the Non-farm Economy and Rural Enterprise Growth in Jamaica's Sugar Dependant Areas*

Brief Bio

Dianne Gordon is a part time student in the MPhil/PhD programme at SALISES, UWI, Mona. Her thesis research is in the area of rural non-farm enterprise development and sustainable rural livelihoods. She currently holds the position of Director of Bauxite Lands and Administrator of the Bauxite Community Development Programme (BCDP) at the Jamaica Bauxite Institute. Bachelor of Arts (Geography), UWI Mona, Master of Science (IRDP) University of Guelph.

Kevon Rhiney and Tim Chambers: *Improving market access among smallholder farmers through the adoption of alternative business models: Oxfam's experience in the Caribbean*

Brief Bio:

Kevon Rhiney graduated from The University of the West Indies (UWI) with a PhD in Geography (2010). His dissertation examined the nature and extent of the market linkages that exist between the tourism and agricultural sectors in Jamaica, using the resort town of Negril as a case study. He currently lectures Human Geography at the UWI Mona Campus situated in Kingston, Jamaica. He also holds the position of President for the Jamaican Geographical Society (JGS) and is also a Research Fellow for the Centre for Leadership and Governance, UWI.

His research interests span the rural-urban nexus and include rural sustainable development, agri-food systems and rural livelihoods, value and commodity chains, climate change and adaptation; market liberalization and food security, globalization and governmentality, tourism development and planning, and participatory urban planning and governance.

Brief Bio:

Tim Chambers holds a M.Sc. in Development Economics (2005) from the University of London and an MBA in Finance and Strategy (2010) from the Open University Business School, based in the United Kingdom. He is currently an Enterprise and Markets Advisor for Oxfam GB where he works closely with a range of partners on the practical side of growing a portfolio of excellent enterprise development and investment opportunities in Latin America and the Caribbean focusing on new and better business models for rural smallholder producer organisations within commercial value chains.

Born and raised in Zimbabwe, Tim draws on a range of practical and applied personal experiences as an entrepreneur in southern Africa and London, as a business leadership coach in rural west Africa, and as a successful research project manager for organisations like Oxfam and the New Economics Foundation working with clients that include the UK Government and the Department for International Development (DFID), the European Union, the Social Enterprise Coalition, and the African Foundation for Development.

BLOCK C-Globalization Climate Change and Rural resilience: Gender Matters
Chair: Suzanne Charles-IGDS

Leith Dunn: *Mainstreaming Gender: Governance, Climate Change and Disaster Risk management. IGDS*

Bio Brief

Dr Leith Dunn is a Jamaican Sociologist and Senior Lecturer/Head of the Institute for Gender and Development Studies (IGDS) Mona Unit, at the University of the West Indies in Jamaica. She is a graduate of the University of the West Indies Mona (B.A (Hons) (Languages and Social Sciences) & MSc Sociology) and the London School of Economics and Political Science (Ph.D. in Sociology and Economics). Languages: English, Spanish, French and Portuguese.

Expertise: Dr Dunn's research, publications and advocacy work spans a wide range of gender and development policy issues which include: promoting gender mainstreaming in climate change, and disaster risk management, gender equality in governance and leadership; HIV/AIDS; eliminating gender based violence, human trafficking; child labour; and migration and international trade.

Previous Employment: UNFPA (Assistant Representative for the English and Dutch-speaking Caribbean); Christian Aid (London): Project Officer for Latin America and the Caribbean ; CUSO (Caribbean Director). International Development Consultant and Advisor to several development agencies: the Planning Institute of Jamaica, CARICOM, the Organisation of American States; the United Nations, the Commonwealth, CIDA, and DFID.

Public service: members of the Board of the Shortwood Teachers' College (Jamaica) and the Foundation for International Training (Canada).

Siddier Chambers and Christine Taylor: *Reframing Rural Resilience in Jamaica: Linking Women's Empowerment, Poverty Reduction and Climate Change Adaptation Strategies*

Brief Bio

Siddier Elizabeth Chambers is passionate about gender equity and rural development. Over the last 6 years she has worked on and managed numerous gender equality and national development projects and programmes both with government and non-governmental organizations on issues such as violence against women, women's economic and political empowerment, women's human rights, international human rights conventions, masculinities, poverty, community development, gender advocacy, policy development, leadership, gender and governance, among others. Siddier also does research studies on gender and development issues, some of which she has presented at regional conferences.

Siddier Chambers is currently enjoying her dream job as Project Officer at the Bureau of Women's Affairs (an agency in the Office of the Prime Minister), where she has successfully managed and implemented various socio-economic development projects. This position she has held since June 2008. Siddier holds a MSc. in Governance and Public Policy and a BSc. in International Relations/Gender & Development Studies/Economics (Honors) from the University

of the West Indies. Siddier also has project management certifications from the University of New Orleans and Management Institute for National Development. Siddier is the recipient of a 2012 scholarship from the Programme on Women's Economic, Social and Cultural Rights (PWESCR) Leadership Institute in Nepal; 2011 Ministry of Commerce, People's Republic of China, Seminar on Female Capacity Building for Developing Countries in China; 2006 UNESCO Research Fellowship in Gender Studies in Egypt; 2004 Dorian Powell Award in Gender Studies by the Institute for Gender and Development Studies (Mona); outstanding performance in 2004 Quality Leadership Programme of the University of the West Indies; and Siddier's research thesis was awarded most outstanding research paper by SALISES in 2007. Also, she has skills and knowledge in Results-Based Management, Programme and Resource Management based on extensive training according to the United Nations' system. She is a devoted Christian who attributes her successes to God's faithfulness.

Bio data

Christine Hillary Taylor

For over 10 years, Christine has worked as a Marketer and an Administrator, developing and executing marketing and management plans and projects. She serves as the head of marketing teams where she researches and writes marketing plans and programmes. These plans and programmes have resulted in policies and procedures changes, aimed at standardization of procedures, reduction in errors and maximization of profits.

Christine is currently employed as Sales and Marketing Officer at the Dynamic Packaging Products Ltd (a manufacturing company). She holds a MSc. in Social Policy (2007) and a BSc. in Psychology and Management Studies (Honors) (2004) from the University of the West Indies (UWI). In partial fulfillment of her Master in Social Policy, her research interrogated the space of the Jamaican woman's experience with higher education and its ensuing role in economic empowerment. She is a fundraising committee member of Jamaica Aids Support and at the Women Crisis Centre, she serves as a crisis line operator. Christine is also an E-tutor with the UWI Open Campus, tutoring Survey Design and Analysis and Managerial Economics. She is also a course coordinator for the course Introduction to Psychology. In her quest to live her best life, she idealizes this quote...“Knowledge is power, but sharing is development/progress”.

Kimberly Carr : *Rural Women and their vulnerability to climate change in agriculture-* IGDS

Ms Kimberley Carr is a final year BSc Gender and Development UWI/IGDS Mona Unit. Her research focuses on Gender, Climate Change and Disaster Risk Management .

BLOCK D- Climate Change and Vulnerability- Critical Issues in Response Mapping
Chair: Prof Dale Webber

Anthony McKenzie and Sean Green: *Adapting To the Challenges of Climate Change within an Ecosystem-Based Management Framework – The Jamaica Case Study*

Brief Bio

Anthony McKenzie has in excess of twenty years experience in environmental management in Jamaica. He is currently the Acting Director for the Policy, Planning, Evaluation and Research Division at the National Environment and Planning Agency (NEPA).

Anthony has a Masters Degree in wastewater treatment and process technology and a Masters in Business Administration (MBA) with specialization in strategic planning.

His current research interest is in the area of coastal zone management, specifically, the impacts of climate change.

Sean Green (B.Sc, M Phil.) received his training in marine sciences from the University of the West Indies, Mona. He is actively involved in coral reef monitoring activities in Jamaica and has been directly involved in coral reef monitoring in Jamaica since 2001. Mr. Green is currently the coordinator for ecosystems management in the Integrated Watershed and Coastal Zone Management Branch at the National Environment and Planning Agency (NEPA) in Jamaica.

Wayne Elliot, Troy Lorde, and Winston Moore: *Climate Change, Atlantic Storm Activity and Coastal & Human Settlements*

Brief Bio

Dr. Winston Moore is a Lecturer in Economics at The University of the West Indies, Cave Hill Campus (2006–present). Prior to this, he held the position of Senior Economist at the Central Bank of Barbados. His recent research has examined the issues surrounding the frequency of price changes in Barbados, electricity price reform, the green economy and the economics of

climate change. Dr. Moore has published more than 70 peer-reviewed articles and his research has appeared in the *Journal of Forecasting*, *Journal of Policy Modelling*, *Annals of Tourism Research*, *Applied Economics*, and *Contemporary Economic Policy*. He holds a PhD in Economics from the University of Surrey; a MSc in Economics from the University of Warwick; and, a BSc in economics from the University of West Indies, Cave Hill.

Wayne Elliott is currently a research assistant at the Inter-American Development Bank. He holds a BSc Degree in Economics and Mathematics from the University of the West Indies (Cave Hill). He is a former Central Bank of Barbados' Scholar (2010) and was also a CARTAC sponsored intern at the Caribbean Center for Money and Finance (2011).

Troy D. Lorde is a lecturer in economics at The University of the West Indies, Cave Hill Campus. He conducts research on various issues including the tourism sector in the Caribbean, international trade and other social issues, such as the economic and societal impacts of climate change on the coastal and marine environment and the role of adaptation in reducing climate risk. Troy received a BSc. in Economics and Accounting from The University of the West Indies, Cave Hill Campus, a Masters in Economics from York University, and is working on his PhD in Tourism Economics from the University of Surrey. Troy has contributed dozens of publications to international and regional academic journals, and has served as a peer reviewer for a broad range of journals in economics and tourism. He is currently a member on a regional team investigating the economic and social impacts of climate change on Caribbean countries.

Cavell Francis-Rhiney: *Food Security and Climate Change: Exploring the policy response to climate change in the Jamaican Agriculture Sector*

Brief Bio

Cavell Francis-Rhiney is a PHD Candidate in Sustainable Development Programme at the University of West Indies Mona. She is a Recipient of the UWI postgraduate scholarship for 2011-2012. Her areas of interest are food security and climate change, agricultural policy, livelihood development and scenario planning.

Closing Plenary: Climate Change, Sustainable Agriculture and Food Security: Issues and Options

Chair: Dr. Ballayram / CFNI

Michael Witter: *Estimating the impact of climate change on Agriculture- Case study of Jamaica*

Brief Bio

Michael Witter is a senior research fellow at SALISES, Mona. He has recently begun work on climate change as a central issue in the problematic of socio-economic development for SIDS

Noureddine Benkeblia and Machel Emanuel: *Organic Farming in a Tropical Agro-Ecological System: Case Study of Jamaica-*

Brief Bio

Dr. Noureddine Benkeblia is a Professor of Crop Science, in the School of Agriculture and Life Sciences Dept. and his main research areas are biochemistry and physiology of fresh crops including preservation technologies. His work is mainly devoted to the metabolism of the carbohydrate, fructooligosaccharides (FOS), during plant development and storage periods. Few years ago, he introduced the new concept of system biology -Metabolomics- to investigate the mechanisms of biosynthesis and accumulation of FOS in Liliaceous plants. Prof. Benkeblia, first received his BSc, MSc and Doctor in Agricultural Sciences (PhD) from the Institut National Agronomique (Algiers, Algeria), and Doctor in Agriculture (PhD) from Kagoshima University, Japan. After few years teaching in Algeria, He joined INRA, Avignon (France) as Postdoctoral Scientist from 2001. From 2002 to 2007, he worked as a Visiting Professor at the University of Rakuno Gakuen, Ebetsu (Japan) and a Research Associate in Hokkaido University from 2005 to 2007. Prof. Benkeblia joined the staff of the Department of Life Sciences, University of the West Indies, Mona Campus in 2008, continuing his work on the physiology, the biochemistry and metabolomics of fructan-containing plants. He also works on the postharvest physiology and biochemistry of local tropical. Prof. Benkeblia is teaching physiology, horticulture and postharvest management of crops, and head of the Laboratory of Crop Science.

Machel A. Emanuel is a research assistant in the Department of Life Sciences, the University of the West Indies, Mona, Jamaica. He received a BSc. in Zoology and Botany and a MSc. in Plant Production and Protection from UWI Mona Jamaica. His area of research is crop science with a focus on postharvest physiology and biochemistry of fresh tropical and subtropical fruits. His

main work is devoted to the physiology and the biochemistry of fresh fruits during the maturation and the ripening stages. He is currently conducting research on some local fruits such as ackee (*Blighia sapida*), june plum (*Spondias dulcis*), carambola (*Averrhoa carambola*), otaheite apple (*Syzygium malaccense*), ribena (*Syzygium cummini*) and star apple (*Chrysophyllum cainito*). This research work is conducted in the Laboratory of crop sciences under the supervision of Professor Nouredine Benkeblia, head of the laboratory and supervisor of Machel's work.

Philip Chung: *Small states' agriculture: Building resilience in the face of Climate Change and Globalization*

Brief Bio

Phillip Chung is the Senior Director, Division of Technology, Training & Technical Information, Rural Agricultural Development Authority (RADA). Chung is a career agriculturist, having worked in the Ministry of Agriculture, Jamaica for his entire professional career. For over 20 years, he specialized in Plant Protection Extension, designing and/or managing a number of pest and pesticides management projects and programmes for Jamaican farmers localized and National levels. Notable among these were staff training programmes in integrated pest management (IPM) and safe pesticides use; surveillance programmes for exotic and endemic pests, disease eradication and IPM programmes. He was Co-Principal Investigator for projects under the USAID-funded IPM-CRSP (Collaborative Research Support Project) and served on the Board of the Jamaica Pesticides Control Authority. At the Caribbean regional level he served as the PROCICARIBE IPM network coordinator for 7 years during which he facilitated IPM information sharing among the regional English-speaking states; initiated capacity building programmes in the use of GIS in pest surveillance and a regional disease survey. He also contributed to IPM Farmer Field Schools capacity building for the Caribbean and Jamaica.

Currently Phillip is responsible for ensuring that Jamaican farmers gain appropriate technical knowledge and agricultural livelihood skills facilitated by competent, properly trained RADA extension staff. He manages RADA's Subject Matter Specialists in the areas of plant health/food safety, livestock development, training, land husbandry and protected agriculture. He is also responsible for technical publications. Phillip holds a Bachelor of Science degree from the University of the West Indies, St. Augustine, Trinidad & Tobago. He attended a number of local and overseas in-service training courses.

Ignatius Jean (IICA): *Sustainable Agriculture: IICA's role in supporting rural resilience*

Brief Bio

Mr. Ignatius Jean is a national of Saint Lucia and the IICA Representative in Jamaica. He holds Master's degree in Agricultural Management and a Post Graduate Diploma in Agricultural Economics from the University of Reading, England; a Diploma in Agriculture from the Guyana School of Agriculture; Certificate in Risk Management from the Insurance Institute of America; and Certificate in Business Administration from the University of the West Indies.

Mr. Jean has broad experience in technical cooperation projects, agricultural extension, agricultural risk and insurance. He worked as an agronomist in the Banana Industry of Saint Lucia and the Windward Islands (Dominica, Saint Lucia, St. Vincent, and Grenada) 1980 -1987 and later as the Chief Loss Adjuster of the Windward Islands' Crop Insurance Limited (WINCROP) 1988 - 2001.

He was an elected Member of Parliament, Minister of Agriculture, Forestry and Fisheries and Minister of Physical Planning, Environment and Housing in Saint Lucia. During his tenure as Minister of Agriculture, he also served as Chairman of the CARDI Board of Governors.

Mr. Jean joined the Inter- American Institute for Cooperation on Agriculture (IICA) in June, 2007. He was the Institute's Representative in Guyana until his appointment as Representative in Jamaica, February 2012.

DAY THREE

Chair -Dr Michael Taylor

Guest speaker– Dr. Barbara Carby

Brief Bio

Dr Carby, Commander of the Order of Distinction, Jamaica, Knight of the National Order of Merit, France; Ph.D. (Geochemistry), B.Sc. (Geology) University of the West Indies, Diploma in Applied Geology, Nancy, France.

She is a disaster risk management professional with 20 years national and international experience in risk reduction, pre and post disaster planning and interventions. My core competencies are all-hazards planning, evidence-based policy development, hazard management programme development and evaluation, contingency planning and evaluation, building awareness for the importance of risk reduction from community through national to international level.

Dr Carby was the former Director General, Office of Disaster Preparedness and Emergency Management, Jamaica; First Director, Hazard Management Cayman Islands (HMCI) – had responsibility of establishing HMCI and national policies and programmes in disaster risk reduction; Currently Director, Disaster Risk Reduction Centre, University of the West Indies

In voluntary contribution to public like Dr Carby has served the Organisation of American States (OAS), Association of Caribbean States (ACS), the Caribbean Disaster Emergency Management Agency (CDEMA) and the United Nations in a voluntary capacity including: Member and Vice Chairman – Scientific and Technical Committee for the International Decade for Natural Disaster Reduction in the 1990s; Member of the Advisory Board of the United Nations Central Emergency Relief Fund : 2004 -2006; Has been a long-standing partner of UN International Strategy for Disaster Reduction in promoting disaster risk reduction globally including presentations to ECOSOC and UN General Assembly. Currently Member of the Catastrophic Risks Advisory Council of the World Economic Forum.

**Opening Plenary – RIO + 20 -Pathways to rural resilience Roundtable
Chair: Anthony McKenzie -NEPA**

Robert Kerr: *Capacity Rated Road Map - “Pathways to Rural Resilience”*

Brief Bio

Robert O. C. Kerr is a representative from UN Food and Agriculture organization (FAO), in Jamaica. He is a specialist in community-based strategies for sustainable development with over twenty (20) years practical experience in project management and involvement in internationally funded development initiatives - acquiring in the process considerable understanding and knowledge of integrative approaches to natural resource management and economic development. Based on extensive hands-on project experience has developed the 3-Step

Integrative Model for capacity building and project design and appraisal. Having also worked in every parish in Jamaica is experienced in operating in remote areas and relating to rural communities. Has over the past two decades acquired an extensive professional network among civil society and the public sector and is able to relate to a wide cross section of stakeholders and interest groups.

Based on a background of Natural Resources Training (local and international), has within Jamaica played a leadership role in the major sustainable development projects over the past decade and a half and has been exposed to project management in both the public and private sectors; contributing to the building of a considerable reservoir of expertise and experience as well as a track record of successful projects.

As a director of the award winning Sun Venture Tours limited, designs, develops, and oversees eco/nature tours throughout the island. These nature and adventure tours include, Hiking (Blue Mountains and the Cockpit Country); Safaris, Caving, Educational, Cultural and Heritage Sightseeing packages. The company also operates a wilderness retreat in the Blue Mountains.

Dr Margaret Jones-Williams: *Rio +20: The Future for Jamaica*

Brief Bio

Margaret Jones Williams PhD, QEP is an experienced environmental professional with over twenty years of involvement in environmental studies, project management, project evaluation, environmental impact assessments, construction monitoring, report writing and lecturing. Her career has included work in the private sector, public sector, academia, civil society and the international donor community.

As Programme Advisor for the Environment and Energy Unit at UNDP, Dr. Jones Williams is responsible for providing leadership in the development of the strategic programmes in natural resource management; climate change adaptation and mitigation; energy efficiency; and disaster risk reduction. This has been accomplished through the effective management of the Programme; the supervision of the Environment and Energy Team; strategic partnership building with key stakeholders in the public sector, private sector, civil society and academia; support to resource mobilization; and ensuring top quality advisory services and facilitation of knowledge building and management.

Over the last several months, Dr. Jones Williams has been working closely with relevant national stakeholders on Jamaica's preparations for Rio + 20, June 2012.

Pedro Mas Bermejo: *Health at the Heart of Sustainable Development:*

Breif Bio

Dr. Pedro Más Bermejo is a representative of the Pan American Health Organization (PAHO) and a Physician with dual specialties in epidemiology and public health. He has a PhD in Epidemiology from the University of Karlova in the Czech Republic and Post-Doctoral studies in Liverpool School of Tropical Medicine in the UK. He is a full-time professor at the National School of Public Health and senior researcher at the “Pedro Kourí” Institute of Tropical Medicine and the Cuban Academy of Sciences. He served 14 years as Director of the National Hygiene, Epidemiology and Microbiology Institute in Havana, and has published widely on epidemiology and public health. Dr Más directs the “Revista Cubana de Higiene y Epidemiología” and is on the editorial board of the Journal of Public Health Policy. He is currently the Sustainable Development and Environmental Health Advisor at the Pan-American Health Organization Office in Jamaica.

Jacqueline DaCosta: *Innovative Solutions, Communities and Sustainable Development*

Brief Bio

Mrs. Jacqueline DaCosta has held many senior positions in the Jamaican Government including Consultant Coordinator Special Programmes and Projects, Cabinet Office, Technical Advisor - Cabinet Sub-Committees, Permanent Secretary, Ministry of Land and Environment, which included Sustainable Development, Planning, Watersheds, Disaster preparation, Management and Hazard Mitigation, Mining and National Spatial Data Infrastructure. Prior to that, she was the Senior Adviser on Land Policy and Physical Development to the Prime Minister of Jamaica. She spearheaded the preparation of Jamaica's Comprehensive National Land Policy and the Development and Investment Manual for Jamaica.

She currently chairs the Land Information Council of Jamaica, and is the CEO of *the National Best Community Foundation* and member of its National Steering Committee for its Competition

and Programme as well. She sits on several Boards and Committees including the Nature Preservation Foundation, the Jamaica Protected Areas Trust and the Women's leadership Initiative. Her qualifications and expertise include Policy Formulation and Implementation, National Spatial Data Infrastructure Policy, Land Policy, Administration and Management, Sociology, Sustainable and Regional Development Planning, Management and Environmental matters. She has been President of a number of Professional Associations including the Commonwealth Association of Planners, The Professional Societies Association in Jamaica and the Jamaica Institute of Planners.

Mrs. DaCosta has received numerous international, regional and national awards. These include the UN Habitat scroll of Honour Award, recognition by The Nature Conservancy for her service to conservation of Jamaica's Natural Heritage, by the IMBAJ, by the Government of Jamaica with a National Honour, the Order of Distinction, Commander Class for her contribution to the Public Sector. Awards by ESRI and URISA, LICJ have been made for her contributions to GIS development, Planning, Development, Land Policy, Administration and Management in Jamaica and the Caribbean. She is at present a Private Consultant, working in some of the areas mentioned above and volunteers most of her time towards assisting with the creation of Sustainable Communities in Jamaica.

BLOCK A-Time to Adapt: Rural Resilience Initiatives
Chair: Prof Michaeline Crichlow

Annicia Gayle-Geddes: *Pathways to Adaptation & Sustainability In Rural Spaces: Agriculture and Tourism in Jamaica.*

Brief Bio

Annicia Gayle-Geddes is a graduate of the University of the West Indies with a Ph.D. in Social Policy. Her research interests and professional expertise span social policy, programme, project development, monitoring and evaluation in areas of health, social protection, poverty, community development, agriculture and tourism in urban and rural contexts. The vulnerabilities of marginalized groups such as person with disabilities, children, youth and women are given special attention in her work. In recognition of her work, Annicia has served as Member of Jamaica's

National Disability Advisory Board; Member, Legislation Committee for a Disability Act; and Chairperson, National Consultation Committee for a Disability Act. She is currently employed at the Jamaica Social Investment Fund having management and technical responsibilities for the monitoring and evaluation of 10 national projects funded by the Government of Jamaica and various international donor agencies.

Alvin Murray: *Local Initiatives for Rural Resilience- A Case Study of the Christiana Potato Growers Cooperative*

Brief Bio

Alvin Murray is a 1976 Graduate of the Jamaica School of Agriculture. He is a participant in the 7th International Potato Course on Production, Storage and Seed Technology in Wageningen Netherlands and Cooperative Management and Production in Hungary.

Alvin participated in Workshops, Seminars and Field Trips on Potatoes, Banana and Coffee, from the seed to the fork as well as Europe, North Central and South America, Caribbean, China, Japan, dealing with Production and Cropping Systems, Integrated Pest Management and Food Safety, Spray Technology and Irrigation systems.

He developed a sustainable coffee, banana, Lumber, Roots and Tuber, vegetable Intercropping system still practiced in Western and Central Jamaica. Developed and implemented a spraying programme while employed at WESTBAN; this programme along with aspects of our Input Credit Programme has now been fully adopted by the E.U. Banana Assistance project in Jamaica.

Alvin was instrumental in the initial work that led to the development of mini wet pack for export bananas, a practice that was used for export bananas on the Seven Rivers Farm since October 1987.

He received the (JAS) Jamaica Agricultural Society award for the most innovative and dedicated farmer in Jamaica 1993/94, three times Champion farmer for the parish of Westmoreland.

Previously owned and operated 60 hectares of High Mountain Coffee intercropped with bananas in Westmoreland. (Non-Blue Mountain Coffee is no longer viable). Have over Thirty-five years experience in Agriculture and Agricultural Extension.

Wordsworth Gordon: *Jeffery Town: Community Pathways to Resilience.*

Brief Bio

Wordsworth Gordon is the President of the Jeffrey Town Farmers' Association since 2005. Wordsworth spent the majority of his working life in the UK as a trade union representative for the Transport and General Workers Union whilst working for Ford Motor Company where he became the first black convener representing five thousand workers at the assembly plant in Dagenham. He served on the south east regional trade union congress race advisory committee and chairman of the regional race advisory committee (region 1) and the national joint negotiating committee. Represented the Transport and General Workers union at international conferences and received two commendation awards when leaving the service.

He returned to Jamaica in 1994 began to farm for a living, then joined the Jeffrey Town Farmers Association in 1993. He has been elected to the post of vice president in 2000 and president in 2005.

Maurice McNaughton: *Open Data and Climate Change: Novel approaches to building awareness and rural resilience*

Brief Bio

Dr Maurice McNaughton graduated from the University of the West Indies with a BSc. Degree, 1st Class Honors in Electrical Engineering and completed a Masters degree in Electronic Engineering at the Phillips International Institute of Technology in the Netherlands where he specialized in Computer Networks. He pursued his PhD studies in Decision Sciences at Georgia State University, where his research interests included: Organizational strategy in the Digital economy and the impact of IT on competitive advantage.

During his professional career, Dr. McNaughton has had over 15 years senior management and leadership experience in the planning and direction of enterprise-level Information Technology in organizations. He had extended tenures at Alcan Jamaica Co., Jamaica Telephone Co. and was Chief Information Officer at the Jamaica Public Service Co., and Paymaster Jamaica Ltd. He is currently Director of the Centre of Excellence at the Mona School of Business, where he is

evolving an Application-oriented Research Agenda around the use of ICTs to enable Business Innovation in the Small Medium Enterprise sector in Jamaica and the Caribbean.

Dr.McNaughton has a strong passion for higher education and teaches graduate level courses in Software Engineering, Software Economics, Decision Sciences and IT Governance in the MIS and MBA programs at the University of the West Indies.

**BLOCK B-Climate Change, Disaster Risk and Natural Resource Management Strategies
Chair : Dr David Smith- Climate Change and Disaster Risk Reduction Unit**

Ron Jackson: *Understanding the Nexus of Climate Change, Disaster Risk Management and Natural Resources Management*

Brief Bio

Mr. Ronald Jackson is currently the Director General of the Office of Disaster Preparedness and Emergency Management a position he was appointed to in August 2006. Since joining the organization in March 2000 Mr. Jackson has held the post of Regional Coordinator for the Southern Parishes, Senior Director of the Preparedness and Emergency Operations and Deputy Director General.

He has coordinated the Emergency Response and Early Recovery efforts of the National Response Team for Hurricanes Charlie, Ivan (2004); Dennis and Emily (2005), Hurricane Dean (2007); Tropical Storm Gustav (2009) and numerous flood and drought events. He has also coordinated and facilitated the Caribbean North Western Sub-Regional Response to the Haiti Earthquake (2010).

He has been instrumental in the development of the Guidelines for Child-Friendly Disaster Management and Response, the reinstatement of the ODPEM Dedicated Communication Network, revision of the Post Disaster Welfare and Early Recovery Support Process and The Disaster Resilient Communities Programme. He is currently the Chair of the IDB Caribbean Policy Dialogue on Disaster Risk and Climate Change Adaptation, Co-Chair of the OAS Inter American Network on Disaster Management and Jamaica's Thematic Working Group for Disaster Risk Reduction and Climate Change Adaptation. He has also served as the Caribbean representative on the Global Mid Term Review Committee of the United Nations International

Strategy for Disaster Reduction's Hyogo Framework of Action and is now serving on the Post 2015 Hyogo Framework of Action Advisory Committee.

Mr Jackson holds a Master of Science (M.Sc.) in Natural Resource Management from the University of the West Indies and a Bachelor of Science Degree in Integrated Physical Planning and Environmental Resource Development from the University of Technology.

Indi Mclymont-Lafayette : *Hearing community and vulnerable voices in Climate Change and Natural Resource Management*

Brief Bio

Indi Mclymont-Lafayette is a multi-award winning journalist with just over thirteen years experience in media and communications. Since joining Panos Caribbean in 2006 she has honed her expertise in communications for development with significant focus being on communicating climate change issues in Jamaica, the Caribbean and internationally. The pilot environment communication project that she leads in Jamaica, the Voices for Climate change Education project, was in late 2011 named a UN Communication best practice case study.

As the Vice-chairperson of the National Environmental Education Committee, Ms McLymont-Lafayette, has coordinated the project, Voices for Climate Change Education: A National Climate Change Communication Strategy since it began in 2009. It uses popular artists to reach a large sector of society that would not otherwise relate or respond to traditional media. The project has also worked with vulnerable sectors (energy, agriculture, insurance and tourism) to sensitise them on climate impacts. Based on her work with Voices, she was in January 2010, asked to sit on Jamaica's 2030 national development plan thematic working group on climate change and disaster risk reduction. This working group informs policy decisions.

She has played a key role as a regional partner in the Climate Change Media Partnership (CCMP) which is the premier programme building Journalists capacity to cover the UN Climate meetings each year. The CCMP is a partnership between Panos, Inter news and the International Institute for Environment and Development. Ms. Mclymont-Lafayette holds a BA in Media and

Communications (Honours), an MA in Counselling Psychology and is the Regional Director, Community, Media and Environment at Panos Caribbean.

Leonie Barnaby: *The EU-UNEP-GOJ climate adaptation and disaster risk reduction project-* Senior Director, Environment Management Division, Office of the Prime Minister

Ann Marie Virgo: *Gender impact of drought in rural areas.* IGDS

Bio brief

Ms Ann Marie Virgo, final year BSc Gender and Development; GEND3032: Gender Climate Change and Disaster Risk Management , UWI/ Institute for Gender and Development Studies Mona Unit; Alister McIntyre Building UWI Mona. 9777365. Email: annmarie.virgo@gmail.com

BLOCK C- Climate Change and Vulnerability: Adaptation and Mitigation scenarios Chair: Maurice Mason (ISD, UWI)

Sherry Ann Ganase and Sonja Teelucksingh: *Linking Vulnerability, adaptation and mitigation in small island developing states: Climate change and the community of Grande Riviere, Trinidad*

Brief Bios

Sherry Ann Ganase presented her first paper as a co-author entitled “An Assessment of Factors impacting Vulnerability and Resilience in Caribbean Coastal Communities; A Proposed Vulnerability Framework” at the Conference on the Sustainable Development of Coastal Communities: Challenges and Solutions in Hyatt Trinidad in June 2011. Upon completion of her Masters in Economics, she presented the findings of her research paper at the XLII (43rd) Annual Conference of Monetary Studies in Hilton Barbados in November 2011 and at The University College of the Cayman Islands Caribbean conference: 50-50-Surveying the Past, Mapping the Future in March 2012.

Ms. Ganase is presently a full time at the University of the West Indies, St Augustine campus pursuing her Masters of Philosophy in Economics, focusing on Climate Change. Previously, she graduated from the University with an MSc in Economics and B.Sc. (First Class Honours) in Economics and Business Management. Sherry Ann is also a research associate in the

International Community-University Research Alliance (ICURA) project entitled “Managing Adaptation to Environmental Change in Coastal Communities: Canada and the Caribbean”.

Dr. Sonja S Teelucksing holds a Ph.D. in Environmental Economics and Environmental Management from the University of York (United Kingdom) and a B.Sc. (First Class Honours) in Economics from the University of the West Indies (St. Augustine). She is a Lecturer at the Economics Department of the University of the West Indies (St. Augustine) and an Associate Researcher with the Sir Arthur Lewis Institute of Social and Economic Studies (SALISES). She was also a Marie Curie Research Fellow at the Fondazione Eni Enrico Mattei (FEEM) in Venice, Italy. Her research interests are on natural resource management in Small Island Developing States (SIDS) with specific reference to climate change adaptation strategies, climate-compatible development policies, and the valuation of biodiversity and ecosystem services. She is currently serving on the Economic Development Board of Trinidad and Tobago.

Rose Ann Smith: *Adapting to Global Economic and Climatic change in Northern St. Vincent*

Brief Bio

Rose-Ann Smith is a Vincentian student, studying at the University of the West Indies, Mona campus Jamaica. She is the first of three children for her parents. In 2008, she obtained her Bachelor of Arts degree in Geography with First Class Honours. As an undergraduate student, Rose-Ann resided on Mary Seacole for her three years of studies. As a Seacolite, she was an active member on Crowd Block and worked closely with the executive and other members to ensure that her block and hall was a success.

She returned to the university in 2009 to do Mphil studies in Geography. She obtained the University’s Graduate Scholarship for the years 2009-2011. During her Mphil studies, she got married to Rahsaan Smith in 2010. In 2011, she upgraded her studies and is currently a PhD student in the Department of Geography and Geology. Her study focuses on Vulnerability to Meteorological hazards in Northern St.Vincent: a community-based approach to sustainable livelihood.

As a graduate student, she became a Resident Advisor on the Rex Nettleford Hall where she works closely with the hall’s administration to ensure successful student development. Although

no longer in the position of Resident Advisor, Rose-Ann continues to work closely with students through the Programmes Unit of the University of the West Indies.

Her current aim is to successfully complete her PhD studies and work closely with communities in developing and improving strategies for coping with climate change and other factors affecting livelihoods.

Marlene Murray and Patrick Watson: *Vulnerability to Storms and Hurricanes: Implications for Mitigation in the Rural Communities of Trinidad*

Brief Bio

Patrick K Watson holds a Master's and a Doctoral degree in Mathematical Economics and Econometrics from the Université de Paris I (Panthéon-Sorbonne) and a Bachelor of Commerce degree with accounting as a principal subject from the University of Leeds. He became Director of the Sir Arthur Lewis Institute of Social & Economic Studies of the University of the West Indies in 2003 where he now serves as University Director and Professor of Applied Economics. He also served as Dean of the Faculty of Social Sciences from 1995 to 2003.

Professor Watson has published widely in the area of theoretical and applied econometrics, with emphasis on the Caribbean Economy. He currently serves as Chairman of the Trinidad & Tobago Securities and Exchange Commission and he has also served on various other Public Sector Boards and Committees, including the North-West Regional Health Authority (Chairman), the Regulated Industries Commission of Trinidad & Tobago (Deputy Chairman), the Central Bank of Trinidad & Tobago and the Economic Development Board of Trinidad & Tobago. He also served as a member of the Parliament of Trinidad & Tobago (Senate) from June 2010 to June 2011.

Marlene Murray obtained a B.Sc. in Management Studies and a M.Sc. in Accounting from the University of the West Indies (UWI). She is a member of the Institute of Chartered Accountants of Trinidad and Tobago and is a Chartered Financial Analyst. Her professional career includes senior management positions as a regulator of the insurance industry as well as the securities and capital markets in Trinidad and Tobago.

Marlene is currently engaged in postgraduate research at Sir Arthur Lewis Institute of Social and Economic Studies, UWI, St Augustine. Her research focus is on natural disaster risk management on the islands of Trinidad and Grenada.

BLOCK D -Climate Change, Globalization, Vulnerability and the Politics of Resilience-Issues and Options

Chair: Dr Kevon Rhiney

Anthony Clayton: *The Future of Food and Agriculture*

Brief Bio

Professor Anthony Clayton MA (Hons), PhD, FCAS, FTWAS is the Alcan Professor of Caribbean Sustainable Development in the Institute for Sustainable Development, University of the West Indies, Visiting Professor at the Centre for Environmental Strategy in the School of Engineering at the University of Surrey, Visiting Professor at the Institute for Studies of Science, Technology and Innovation in the School of Social and Political Studies at the University of Edinburgh, Adjunct Distinguished Professor of Sustainable Development, Faculty of Business and Management, University of Technology, International Associate, Centre for Social and Environmental Accounting Research, University of St Andrew, Honorary Fellow, Faculty of Science and Engineering, University of Edinburgh, Fellow of the Caribbean Academy of Sciences (Jamaica), and Fellow of TWAS (the Academy of Sciences for the Developing World).

His main research areas include policy studies, scenario planning and foresighting, policing, crime and national security, public policy for science and technology, the relationship between innovation and economic development, cleaner production and eco-industrial efficiency, energy policy and climate change adaptation.

Michaeline Crichlow and Marcos Morales: *Land, Labor and Identity in the Dominican Republic: Notes on a Politics of Place*

Brief Bio

Michaeline Crichlow, an historical sociologist is a Professor of globalization and the global Caribbean, at [Duke University](#) in the Departments of African and African American Studies and Sociology. She is also, Associate Director of the Center for African and African American Research. She co-coordinates the Race Space Place, initiative that is dedicated to studying the relational histories of freedom projects globally. She is the author of “Negotiating Caribbean Freedom: Peasants and the State in Development” (2005); with Patricia Northover, “Globalization and the Post-creole Imagination: Notes on Fleeing the Plantation “(2009), and editor of “Carnival, Art, Politics: Performing Life” (2012). Her current research focuses on development dilemmas and citizenship issues in African, Caribbean and Pacific countries.

Brief Bio

Marcos A. Morales was born in Santo Domingo, Dominican Republic. He completed studies in Business and Geography, specializing in Gender and Development. The author is professor at the Geographical Sciences Department of Universidad Autónoma de Santo Domingo, and associate researcher at the Geographical Institute and the Observatory of Caribbean Migrants. Actually is doing research on the transformations of the geographical space in several insular contexts, rural-urban territories, protected areas and migrations.

Franklin McDonald: *Capacity Building for Resilient Caribbean Societies.*

Brief Bio

Franklin McDonald MSc, OD is an Engineering Geologist and Graduate of the University of the West Indies and Leeds University. He has been active for several decades in Caribbean and Global programmes related to Hazard Assessment, Risk Reduction, Natural Resource Management and Environmental Conservation and was an active participant in the Rio and SIDS processes which promoted shifting Caribbean societies toward a sustainable development path.

He has headed Jamaica’s focal points dealing with Earth / Geological Science; Disaster Management; and Environmental Conservation. He was a member of the Pan Caribbean Disaster Preparedness and Prevention Project (PCDPPP) team and served on the UN Group which conceptualised and promoted the 1990s as the International Decade for Natural Disaster Reduction (IDNDR). He has participated in policy initiatives and programme design and

implementation related to Land Use, Climate Change and Disaster Risk Reduction at sub national, national and regional levels.

Since retiring from the Jamaican Public Service in 2004, he has been involved with several capacity building initiatives in the Wider Caribbean. These include efforts to strengthen the UWI Institute for Sustainable Development, and improving coordination of natural resource / coastal / marine area management through the UNEP Caribbean Environment Programmes Regional Coordinating Unit (CEP/RCU).

He is currently an ‘Elected Partner’ of the Caribbean Natural Resources Institute (CANARI), a Director of PANOS Caribbean, and (since 2011) a Visiting Scholar at York University attached to the Disaster / Emergency Management Programme, School of Administrative Studies (Atkinson Faculty of Liberal & Professional Studies).

Closing Plenary- “Betta mus come”- Repositioning sugar for green growth and rural resilience

Chair- Dr. Derick Deslandes- Management Studies UWI
Expert Panel Roundtable

Mr. George Callaghan, Head – Sugar Transformation
Unit, Ministry of Agriculture and Fisheries

Bio Note

George Callaghan is an Agricultural Economist, trained in Moscow and the United Kingdom. He has over twenty-six (26) years experience working at various levels of management in the sugar cane sector in Jamaica. George is currently Head of the Sugar Transformation Unit of the Ministry of Agriculture and Fisheries. The Unit has a mandate to support the development of a commercially viable sugar cane sector in Jamaica by Year 2020, latest.

Mr. Francis He- CEO, Pan-Caribbean Sugar Co Ltd. (COMPLANT)

Mr. John Gayle, CEO Sugar Company of Jamaica, (SCJ) Holdings Ltd.

Dr Betsy Bandy-Ministry of Mining/Energy- role of the sugar industry in Jamaica’s national energy policy