



Organization of  
American States



## Sustainable Cities Course, 3rd Edition

The Accra Beach Hotel

Room: Khairoon

Bridgetown, Barbados

August 11-14, 2015

### OAS Department of Sustainable Development Webpages:

- [http://www.oas.org/en/sedi/DSD/Biodiversity/Sustainable\\_Cities/Sustainable\\_Communities/Events/SC%20Course%20Barbados%202015/SCCourseBarbados2015.asp](http://www.oas.org/en/sedi/DSD/Biodiversity/Sustainable_Cities/Sustainable_Communities/Events/SC%20Course%20Barbados%202015/SCCourseBarbados2015.asp)
- [http://www.oas.org/en/sedi/DSD/Biodiversity/Sustainable\\_Cities/SustainableCommunities.asp](http://www.oas.org/en/sedi/DSD/Biodiversity/Sustainable_Cities/SustainableCommunities.asp)
- ECPA Webpage: <http://www.ecpamericas.org/Events/?id=523>

The cities of the Americas are experiencing dramatic and accelerating changes. Significant demographic variations and technological advances are having an increasingly powerful impact on how people live in the region. According to recent studies, Latin America and the Caribbean have the highest rate of urbanization in the developing world. Furthermore, the proportion of the regions' population living in cities has doubled from 41% to 80% in the last 60 years. Rapid urbanization is posing serious challenges to OAS member states in terms of housing, common spaces, sustainable transport, controlling and reducing pollution, the collection and disposal of industrial and electronic waste, and the adoption of renewable and clean energy, among others. Cities often expand beyond their planned limits, and official and informal systems to provide water, sewerage, waste disposal, and other common services to these areas are often insufficient and inefficient.

With the objective of highlighting advancements in sustainable cities, the Organization of American States (OAS), with funding from US/OAS, in partnership with the Ministries of Housing, Environment, and Energy of Barbados with technical support from the Barbados

Renewable Energy Association (BREA) and The Centre for Resource Management and Environmental Studies (CERMES) at the University of the West Indies (UWI), has organized a Sustainable Cities course for a group of urban and social transformation professionals. The Sustainable Cities course provides an integral overview of the different aspects that contribute to building sustainable communities, targeting different topics emanating from the First Summit on Sustainable Development in the Americas held in Santa Cruz de la Sierra in December 1996. In this context, section II.3 Sustainable Cities and Communities recognized:

- The incorporation of the poorest and most disadvantaged sectors of the population into the productive process by, inter alia, creating jobs through public and private investment and expanding and enhancing access to credit and to environmentally sound technologies;
- Growth in job creation in small and micro-enterprises by simplifying paperwork, bureaucracy, and operations that affect them and by promoting the economic competitiveness and environmental efficiency of these production units in urban as well as rural areas;
- Narrowing of the housing unit gap and expansion of basic infrastructure services through a comprehensive approach to the problem of rapid urban growth, including the use of clean, safe technologies;
- Promotion of the quality of life in cities and communities, taking into account their spatial, economic, social, and environmental circumstances; and
- Assurance of the most efficient and least polluting industrial and transportation practices so as to reduce adverse environmental impact and promote sustainable development in cities and communities.

**Course Objective:**

To provide theoretical and practical knowledge of the different elements which contribute to the development of sustainable cities to government officials and members of civil society involved in planning processes and urban development

**Specific Objectives:**

- To provide state of the art knowledge of the set of systems involved in the urban setting combining social and physical science approaches;
- To analyze case studies and identify best practices; and
- To provide a firsthand experience regarding the benefits of green infrastructure, energy efficiency demonstration projects and sustainable transport systems through field visits.

**Course Methodology:**

The course will include theoretical presentations that combine the instructors' inputs with student participation. Case studies will be presented and discussed in order to develop practical skills. The course website will provide background readings and material on each module so that students can prepare in order to enhance learning and assimilation of the program

content. The course will combine theory with practical exercises in which the students will experience the content of each module applied to real life situations through lectures, readings, field trips group exercises and discussion. The course will include a set of field trips through which students will be able to have contact with the operations and functioning of green infrastructure, energy efficiency projects and sustainable transport examples in Bridgetown.

<b>Day 1 - Tuesday August 11, 2015</b>		
<b>Time</b>	<b>Activity</b>	<b>Instructor</b>
8:00-8:30 AM	Registration	
8:30-8:50 AM	Opening Ceremony  Remarks  Overview of Course  Feature Address	- Ministry of Energy <b>Deputy Permanent Secretary in the Ministry of Energy, Jehu Wiltshire</b> - Ministry of <b>Agriculture</b> - Ministry of <b>Environment</b> - Ministry of <b>Housing and Lands, Urban and Rural Development;</b> - Executive Director & President, <b>Barbados Renewable Energy Association (BREA)</b> - Director, <b>The Centre for Resource Management and Environmental Studies (CERMES)</b> at the University of the West Indies (UWI) - Francis McBarnette, <b>OAS Representative in Barbados</b>
9:00-9:10 AM	Organizer's remarks: <b>Ms. Jamilia Parris (Green Age World)</b> and <b>Mr. Chetwyn Ryce (GIZ &amp; BREA)</b>	
<b>Module I: Urban Sustainability and Smart Cities</b>		
9:15-10:05 AM	Barbados' Smart City- Integrating Digital (ICT) Technologies into the Sustainability Plan and a look at requisite Policy development	<b>Mr. Brian Linton</b> Chief Information Officer, Garnet Technologies Inc. <b>Mr. Hallam Hope</b> Communications Policy
<b>10:05-10:20</b>	<b>Coffee Break</b>	

10:20-11:20	Land Use- The relationship between the urban and the natural environment; including biodiversity, and ecosystem services.	<b>Mr. Leroi Coppin</b> Barbados Community College. Biodiversity, Land Use, Environment and Environmental Impact
11:30-12:20	Market based instruments for Urban Policy making	<b>Mr. Richard Huber</b> , Chief, Biodiversity, Lands, and Sustainable Cities Section, Department of Sustainable Development, OAS
12:40PM	Module Break-out groups	Nomination of Break-out group Team Leaders
1:00-2:00 PM	<b>Lunch</b>	
<b>Module II: Built Environment and Sustainability</b>		
2:00-3:15 PM	Urban Green Space and Place-making, Green Building: Standards and Certifications	<b>Mr. Kevin Talma</b> , Talma Mill Studios <b>Mr. Neil Hutchinson</b> , Studio Blue Architects
3:20-4:30 PM	<b>Built Heritage</b> [preservation, learning from and adapting old models for current and future sustainability– Outputs of OAS Consultancy Bridgetown: A Case Study in UNESCO World Heritage Sites as Models for Sustainable] <b>Urban Development And incorporating culture and heritage in building the Sustainable Barbadian City</b>	<b>Dr. Lennox Honychurch</b> , General Manager of the Barbados National Trust <b>Sir Henry Fraser</b> , Chairman, Preservation Foundation Trust <b>Mrs. Sharon Christie</b> , Chairperson for The Revitalization of Bridgetown Initiative
<b>Break</b>		
4:40- 5:20 PM	<b>Panel Insights-</b> A Comprehensive Look Toward Ideal Barbados City Centres (Built Environment and Land Use) in Context: <b>Mr. Leroi Coppin, Sir Henry Fraser, Dr. Yolanda Alleyne</b>	

5:20-6:30 PM	Module Break-out Groups work in teams to prepare building and green space policy and technology initiatives “managing a sustainable city”.	Break-out group, Team Leaders
<b>Day 2 - Wednesday August 12, 2015</b>		
<b>Module III: Sustainable Transport and Mobility</b>		
8:45- 10:15 AM	<b>Panel: Relationship Between Land Use and Transportation; Smart Public Transit Systems and Full Mobility for Barbados’ Sustainable City</b> Dr. Stephen Harewood, Dr. Winston Moore, Ms. Annette Greene from the UWI Cave Hill Dept. of Economics, Mr. Malcolm Bovell (former Deputy Transport Board)	
10:15-10:45AM	<b>Coffee Break</b>	
10:50-11:50 AM	Public Transportation Planning: rapid transit solutions for adequate mass movement Mobility	<b>Dr. Stephen Harewood</b> Head of Dept. and Senior Lecturer of Economics at UWI Cave Hill Barbados Transport Economics
11:50 -12:45 PM	Case studies from the Americas	<b>Mr. Richard Huber</b> , Chief, Biodiversity, Lands, and Sustainable Cities Section, Department of Sustainable Development, OAS
12:45 -1:00 PM	Module Break-out Groups work in teams to prepare policy and technology initiatives “managing a sustainable city”.	Break-out group, Team Leaders
1:00-2:00 PM	<b>LUNCH</b>	
<b>Module IV: Cities and Resilience to Natural Hazards</b>		
2:10-3:00 PM	Coastal Flooding from Marine Sources	<b>Dr. Lorna Inniss</b> , Coastal Zone Management Unit
3:00-5:00 PM	Module Break-out Groups work in teams to prepare resilience policy and development initiatives “managing a sustainable city”.	Break-out group, Team Leaders
<b>Day 3 - Thursday August 13, 2015</b>		
<b>Module V: Renewable energy and energy efficiency in the context of Sustainable Cities</b>		

9:00-10:00 AM	Payments for Ecosystem Services and TRACE (Tool for Rapid Assessment of City Energy) – case studies	<b>Mr. Richard Huber</b> , Chief, Biodiversity, Lands, and Sustainable Cities Section, Department of Sustainable Development, OAS
10:10-11:00 AM	Implementing renewable energy technologies	<b>Mr. Aidan Rogers</b> , President Barbados Renewable Energy Association (BREA)
11:00-11:10am	<b>Coffee Break</b>	
11:10-12:15 PM	Renewable Energy and Energy Efficiency	Roundtable of Companies working in RE and EE organized by BREA as noted in page 25 of BREA Solar PV Consumer Guide
12:15-12:30 PM	Discussion and Summary of key points	BREA
<b>LUNCH</b>		
<b>Module VI: Waste management, recycling and water resource management</b>		
2:30-3:30 PM	Urban water management including storm water and urban runoff to achieve sustainable water quality and conservation outcomes	<b>Dr. Adrian Cashman</b> Director – CERMES, Senior Lecturer Water Resources Management
3:30-4:30 PM	Waste management and Recycling	<b>Gregory Ramsay, Alir Dottin</b> , Sustainable Barbados Recycling Centre
4:30-6:30 PM	Module Break-out Groups work in teams to prepare waste management policy and technology initiatives “managing a sustainable city”.	Break-out group Team Leaders

<b>Day 4 - Friday August 14, 2015</b>		
<b>Field Study Visit 1</b>		
<b>10:00AM-11:20AM</b>	<b>Theme: Waste Management Recycling</b>	<b>Debbie Rhynd</b> , Sustainable Barbados Recycling Center
<b>Field Study Visit 2</b>		
<b>11:50AM</b>	<b>Theme: Heritage and Green Infrastructure</b> Bridgetown	<b>Trevor Marshall</b> , Walking tour of key sites in Bridgetown
<b>2:15PM LUNCH</b>		
<b>Field Study Visit 3</b>		
<b>3:45PM</b>	<b>Theme: Bridgetown and environs - Use of natural assets, watershed management, greening and infrastructure for coastal stabilization</b>	Facilitator: <b>Allison Wiggins</b> Coastal Zone Management Unit
<b>5:45PM</b>	<b>Closing Ceremony</b> <b>Presentation of Outcomes Of Module Break-out groups to prepare policy and technology initiatives “managing a sustainable city”.</b> <b>Reception</b>	<b>Closing Remarks</b> <b>Presentation of certificates</b> <b>Vote of Thanks</b> <b>Permanent Secretary Ministry of Housing, Lands and the Environment (Environment) of Barbados</b> <b>President, Barbados Renewable Energy Association (BREA)</b> <b>Director, The Centre for Resource Management and Environmental Studies (CERMES) at the University of the West Indies (UWI)</b> <b>Francis McBarnette</b> , OAS Representative in Barbados