



Organization of  
American States  
More rights for more people



Executive Secretariat for Integral Development  
Department of Sustainable Development

## Sustainable Cities Course, 8th Edition

Environment Department Conference Room  
Antigua and Barbuda

June 21-24, 2016

### PRESENTATION

**OAS Department of Sustainable Development and other useful webpages:**

- [Sustainable Communities in Central America and the Caribbean](#)
- [ECPA Webpage](#)
- [Sustainable Cities Course 8th Edition](#)
- [Sustainable Cities Collective](#)

#### **Introduction**

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.

Antigua's Environmental Protection and Management Act include several provisions to strengthen environmental protection, including:



- Protecting wetlands, which filter runoff water from the land, prevent coastal erosion, and mitigate storm surges. Safeguard human health by regulating organic and inorganic pollutants and by setting standards for air and water quality, a first in the nation's legislative history.
- Protecting endemic, rare and threatened species. Secures community access to and knowledge of genetic resources.
- Creating the Sustainable Island Resources Framework Fund or "SIRF Fund" to streamline international funding and finance environmental management on the island.
- Improving environmental information, with requirements for spatial data, a natural resources inventory, and environmental registry (e.g. pollution permits) with public access provisions.

With the objective of highlighting advancements in sustainable communities, the Organization of American States (OAS), with funding from US/OAS, in partnership with the Department of Environment, Government of Antigua & Barbuda 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 that 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.
- Produce through break-out groups a policy and recommendations document in each module theme.

## 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. Participants will also form break-out groups in each of the Modules and produce a policy and recommendations document.



## PRELIMINARY GENERAL PROGRAM

Day 1 - Tuesday June 21, 2016		
Time	Activity	Instructor
8:00-8:45 AM	Registration	
8:45-9:00 AM	Feature Address	Minister of Environment
9:00-9:30 AM	Introduction of Participants Overview of Course	Diann Black-Layne, Ruth Shepherd, Lia Nicholson
<b>Module I: Urban Sustainability, Smart Cities, and Civil Society Participation</b>		
9:30-10:45 AM	Sustainable/Smart Cities: Rationale/Emerging Trends What is Sustainable Cities? What are best methods of Civil Society and Public Participation? What are emerging trends in Community Development? What makes cities "livable"?	<b>Confirmed:</b> Diann Black-Layne <a href="mailto:dcblack11@gmail.com">dcblack11@gmail.com</a> <b>Confirmed:</b> Senator Maureen Hyman Payne -- Legal support and commitment to providing information and knowledge to the public. Maureen Hyman <a href="mailto:paynep@hotmail.com">paynep@hotmail.com</a> <b>Confirmed:</b> Brenda Thomas Odlum - Head, Community Development Division <a href="mailto:bato11m@hotmail.com">bato11m@hotmail.com</a>
10:45-11:30 AM	Lessons learned and best practices from Sustainable Cities in the Americas	<b>Confirmed:</b> Mr. Richard Huber, Chief, Biodiversity, Lands, and Sustainable Cities Section, Department of Sustainable Development, OAS
11:30-11:45 AM	<b>Coffee Break</b>	
11:45 -12:45 PM	Promotion of the quality of life in cities and communities, taking into account their spatial, economic, social, and environmental circumstances	Dianne Lalla-Rodrigues Director, Antigua and Barbuda Bureau of Standards Tel: 462-2424 (Local)/+1 268 562-4011 (Int'l) <a href="mailto:Dianne.Rodrigues@ab.gov.ag">Dianne.Rodrigues@ab.gov.ag</a> Web: <a href="http://www.abbs.gov.ag">www.abbs.gov.ag</a>
12:45 -1:00 PM	Break out groups to discuss policy initiatives in each of the module themes -- Discussion and Summary of key points	
1:00-2:00 PM	<b>Lunch</b>	



<b>Module II: Waste management, recycling and water resource management</b>		
2:00-3:15 PM	Flood Hazard, Hydrological cycle and urbanism	<b>Confirmed</b>
3:10-4:00 PM	Recycle certain waste streams including fish and other offals, brewer's spent grain, market waste, restaurant and hotel food waste and crop waste to manufacture a protein product that will lower the cost of feeding poultry and significantly improve the livelihoods of Grenada's farmers while avoiding putting noxious organic wastes in the local landfill and generating odor problems.	<a href="#">The Grenada Project</a>
4:00-5:00 PM		Break out groups to discuss policy initiatives in each of the module themes
<b>Day 2 – Wednesday June 22, 2016</b>		
<b>Module III: Sustainable Land-use, zoning, Transport and Mobility</b>		
9:00 -10:00AM	Relationship between land use and transportation National physical development plan / zoning Development Control Authority (DCA) plan <a href="http://www.environmentdivision.info/wp-content/uploads/2012/01/NPDP-SIRMZP-2012.pdf">http://www.environmentdivision.info/wp-content/uploads/2012/01/NPDP-SIRMZP-2012.pdf</a> National Coastal Zone Management Policy	Ruleta Camacho Thomas (Mrs) Deputy Director, Department of Environment, Ministry of Health and the Environment 1 268 464 5031 <a href="mailto:sirmmab@gmail.com">sirmmab@gmail.com</a> Mrs Delamine Andrew-Williams Delamine Andrew <a href="mailto:delamine_andrew@yahoo.com">delamine_andrew@yahoo.com</a>
10:00-11:00 AM	Public Transit systems for sustainable cities -- Case studies from the Americas	Confirmed: Mr. Richard Huber, Chief, Biodiversity, Lands, and Sustainable Cities Section, Department of Sustainable Development, OAS and Movie: Curitiba, Brazil Case Study



11:00-11:30 AM	<ol style="list-style-type: none"> <li>1. Managing risks to the coastal communities of Vieux Fort, Saint Lucia and the Pointe Sable Environmental Protection Area from natural hazards in the coastal zone and vulnerability to climate change</li> <li>2. Introduce Sustainable Transportation for St. Kitts-Nevis with the use of facilities for non-motorized modes in Basseterre City. Develop a database for transportation statistics to inform policy and forecast needs to avoid potentially costly mitigation measures. Formulate a Transportation Plan as an element of the General Plan Framework or Master Plan for the country and implementation framework for re-distribution of mode share, with emphasis on reducing traffic congestion, pollution, and cost to commuters.</li> </ol>	<p>St Lucia National Trust</p> <p>The Clarence Fitzroy Bryant College</p> <p>St Kitts Nevis</p>
11:30-11:45 AM	<b>Coffee Break</b>	
11:45 -12:45 PM	Module Break-out Groups work in teams to prepare policy and technology initiatives “managing a sustainable city”.	Break-out group Team Leaders
12:45 -1:00 PM	Discussion and Summary of key points	
1:00-2:00 PM	<b>Lunch</b>	



<b>Module IV: Resilience to Natural Hazards</b>		
2:00-3:00 PM	Build community resilience to drought, flooding and other natural hazards in one community in each of Nevis' five parishes by implementing sustainable preventative practices to safeguard the communities from hazards and equip the local population with the knowledge and technical skills to prepare, respond to and minimize the fallouts from natural and human induced hazards.	<a href="#">HOPE Nevis Incorporated</a> St Kitts Nevis
3:00-4:00 PM	Climate change and adaptation strategies at the city level Urban Forestry/People and Trees	
4:30-3:40 PM		Break out groups to discuss policy initiatives in each of the module themes
<b>Day 3 – Thursday June 23, 2016</b>		
<b>Module V: Renewable energy and energy efficiency in the context of Sustainable Cities</b>		
8:30-9:30 AM	Energy management, Energy Efficient Buildings Energy Efficiency Awareness. An initiative to demonstrate Solar Energy at the community level and to bring widespread public education and awareness leading to empowerment and capacity building.	Ms. Ruth V Spencer, National Coordinator- <a href="mailto:GEF/SGPruths@unops.org/rvs_pencer@hotmail.com">GEF/SGPruths@unops.org/rvs_pencer@hotmail.com</a> Mobile:269-783-7286/268-461-0325 Skype:ruth.spencer50 Global Website: <a href="http://sgp.undp.org">http://sgp.undp.org</a> 'Ruth Spencer' < <a href="mailto:ruthspencer5@gmail.com">ruthspencer5@gmail.com</a> >
9:30-10:45 AM	Developing renewable technologies – proposed wind and solar project in Antigua Barbuda	
10:45-11:30 AM	Renewing Legislation and Enabling Environment to renewables. The objective of the ECERA project is to establish and operationalize a regional approach to the development of the electricity sector in the participating OECS countries.	Stanley Barreto, WRB Energy, O:813-251-3737/ 209, M:806-702-0462 Stanley Barreto < <a href="mailto:sbarreto@wrbenterprises.com">sbarreto@wrbenterprises.com</a> >



<b>Module VI: Built Environment and Sustainability</b>		
11:30-12:45 PM	<p>Green buildings, solar voltaics, assessing cost and cost effectiveness, energy efficiency- Towards LEED Certifications in Antigua Barbuda</p> <p>Big experiences with a tiny carbon footprint. That's the mission of the green and sustainable hotels in St. John's. Created with our environment in mind, eco-friendly hotels have all the luxury you want without harming the natural beauty of St. John's. From sustainable energy to biodegradable materials, organic bedding, and more, these green hotels accommodate patrons comfortably and sustainably. Integrated Coastal Zone Management and Expansion of Marine Parks for sustainability and Resilience.</p>	<p>Colin John Jenkins Architect, ABIA M.S.P.M. (Cons. &amp; Infras.) LEED Green Associate <a href="mailto:colinjenkins@gmail.com">colinjenkins@gmail.com</a>.</p> <p>Christine Young <a href="mailto:christine.young28@gmail.com">christine.young28@gmail.com</a></p>
12:45-1:30 PM	<b>Lunch</b>	
1:30-3:30 PM	<p>Comparatively analyze built and cultural heritage of five Caribbean cities (Willemstad, Paramaribo, Bridgetown, St. Georges and East Port-of-Spain), three of which are UNESCO World Heritage Sites and one of which seeks that designation, for elements of smart urban design that decrease car use and encourage walking and cycling as well as potential to generate local economic development and serve as a model for new urban development.</p>	<p><a href="#">University of the West Indies, St. Augustine Campus-Caribbean Network for Urban Land Management (CNULM)</a></p>
3:30-4:30 PM	<p>Renewable Energy in Antigua Barbuda</p>	<p>Girvan Pigott from the Ministry of Energy -- <a href="mailto:girvan.pigott@ab.gov.ag">girvan.pigott@ab.gov.ag</a></p>





<b>Field Study Visit - 1</b>		
4:30-5:30 PM	<p>The solar energy installation at VC Bird International Airport that includes more than 12,000 photovoltaic panels, developed and constructed by United Kingdom-based PV Energy Limited.</p> <p>According to PV Energy, the plant will generate up to 4.645 MWh per year, saving 3.019,50 tons of CO2 emissions on the island in the same time frame.</p>	<p>Field trip to the Airport Girvan Pigott from the Ministry of Energy --</p> <p><a href="mailto:girvan.pigott@ab.gov.ag">girvan.pigott@ab.gov.ag</a></p>
5:30-6:30 PM	<p>Theme Urban inner city watershed management</p> <p>Slums/ghettos/unplanned development/urban renewal</p> <p>Redevelopment of Constitution Park and the proposed redevelopment of the St John's.</p> <p>Night life</p> <p>Parks and urban forestry "Gardens"</p> <p>An architect's perspective on sustainable cities</p> <p>Waste and watershed management</p>	
<b>Day 4 – Friday June 24, 2016</b>		
<b>Field Study Visit - 2</b>		
8:30 -12:00 PM	Dams and water supply	Ministry of Agriculture, Lands, and Housing and the Environment (MALHE) or APUA.
12:00-1:00 PM	<b>Lunch</b>	
1:00-3:00 PM	Group break-out sessions to design policy and technology initiatives "managing a sustainable city".	TBD: Process led by rep from St John's City Council
3:00-4:00 PM	Break- out group presentations and summary of key points	Break-out group Team Leaders
4:00 PM	Closing Ceremony Presentation of certificates Closing Remarks Vote of Thanks	Minister of Environment Mr. Richard Huber, OAS Course Participants