

Event: Urban Biodiversity, a Value to Appreciate
(Montréal, 21-23 May 2013)

List of Speakers and Chairpersons Biographies and Talks

Timothy **B**EATLEY

Teresa Heinz Professor of Sustainable Communities
Department of Urban and Environmental Planning
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Bio: Timothy Beatley is the Teresa Heinz Professor of Sustainable Communities, in the Department of Urban and Environmental Planning, School of Architecture at the University of Virginia, where he has taught for the last twenty-five years. Beatley is the author or co-author of more than fifteen books on these subjects, including *Green Urbanism: Learning from European Cities* (recently translated into Chinese), *Native to Nowhere: Sustaining Home and Community in a Global Age*, and *Biophilic Cities: Integrating Nature Into Urban Design and Planning*. Beatley directs the Biophilic Cities Project at UVA (<http://biophiliccities.org/>) and is also co-director, with Reuben Rainey, of UVA's Center for Design and Health, within the School of Architecture.

Talk Title: Biophilic Cities: The Importance of Nature in Urban Life

Abstract: Nature provides many emotional, spiritual and health benefits to residents of cities. *Biophilia* argues that we have co-evolved with nature, and that we have a deep need to affiliate with the natural world. The human species has "grown up with nature," as E.O. Wilson says, and little wonder that we are happier, more productive, more creative, and even more generous in the presence of nature. Nature in cities offers the promise of lives that are wondrous and connected lives, lives attentive to the natural magic around us. The daily and hourly contact with nature that we need to be healthy becomes more difficult to provide in cities, but there is a remarkable amount of urban nature and biodiversity, and many opportunities to design and plan in ways that integrate and restore nature, and that foster connections to the natural world and to each other. In this presentation the speaker will discuss the new planning and design agenda of *biophilic urbanism* and the need to shift towards a vision of *biophilic cities*. Beatley will examine ways in which cities can be thought to be biophilic, and some of the tools, techniques and strategies available to advance this vision of nature in cities. The author will draw from the findings of his current research, especially the ongoing Biophilic Cities Project, and will describe some of the things that emerging leaders and partner cities are already doing in this arena. From urban forests and river restoration in Oslo, to parklets in San Francisco, to Vitoria-Gasteiz's green ring, to vertical greening innovations in Singapore, Beatley will survey the emerging practice of biophilic urbanism, as well as discuss future needs and likely future directions.

José **B**ERNAL STOOPEN

General Director of Zoological Parks and Wildlife
Coordinator of the Mexico City LAB Program
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Bio: Dr. José Bernal Stoopen holds a PhD in Wildlife Conservation and Management from the Texas A&M University (USA). He has published more than 30 papers related to the conservation of endangered species, wildlife management, veterinary medicine and biodiversity. He has offered multiple lectures and participated in several national and international political and scientific events.

Talk Title: Megadiverse Cities: The Case of Mexico City

Anne **C**HARPENTIER

Director of Montréal's Insectarium | Espace pour la vie
Montréal, CANADA

Bio: Anne Charpentier holds two master's degrees in biology and museology from the University of Montreal. For over twenty years, she has held positions of responsibility within *Espace pour la vie*, including the Biodome and the Botanical Garden, then within Environment Canada's Biosphere and as Director for Culture in a Montreal district. Her accomplishments earned her the 2005 award for "Outstanding Contribution" of the Canadian Association of Science Centers. She currently heads Montreal's Insectarium, which will be completely revamped by 2017.

Coralie **D**ENY

Executive Director
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Bio: Coralie Deny holds a master's degree in environmental science (UQAM). Since 2001, she has worked for the Regional Environmental Council of Montreal, an independent non-profit organization dedicated to protecting the environment and promoting sustainable development on the Island of Montreal. Over the following 8 years, she was responsible for issues relating to green spaces, water and air quality, and waste management. In 2010, she was appointed Executive Director, a position she has held ever since. Ms. Deny is a member of the Mount-Royal consultative table, is actively involved in the preservation of many natural habitats and

green spaces, as René Masson Park and Ile Charron. She was also actively involved in the Biodiversity and Greening Summit held in Montreal in 2010 and is a member of the Greenbelt Movement Steering Committee.

Robert A. **D**UBÉ

Board Chairman
Réseau Environnement
Montréal, CANADA

Bio: Robert Dubé is a professional with over 30 years of experience in general management and the start of innovative projects related to the environment, biotechnology and information technology, in both public and private companies and the senior federal public service. His work experience includes several years in the environmental sector, including as CEO of Bioflo, where he developed and marketed a water treatment biotechnology. At Environment Canada, he held various senior positions, including Executive Director of the Montreal Biosphere (environmental observation centre dedicated to water), Director General of the Environmental Protection Management and senior advisor for the Minister of the Environment at the 1992 Earth Summit in Rio de Janeiro. At KPMG, he was Senior Director, Head of Environmental Services for Quebec. He is currently a senior partner at *TREBORA Conseil*, a firm specializing in strategy and sustainable governance, and Board Chairman of *Réseau Environnement*, an association of environmental experts. Mr. Dubé holds bachelor degrees in biology and law, a Masters in Business Administration, and is a graduate of the McGill International Executive Institute.

Josée **D**UPLESSIS

City Councillor Le Plateau-Mont-Royal-De Lorimier
Member of the Executive Committee
Responsible for sustainable development, environment, large parks and green spaces
Ville de Montréal, CANADA

Bio: Josée Duplessis was elected city councillor of De Lorimier district in 2009. As a member of the Executive Committee of the Ville de Montréal, she is responsible for sustainable development, the environment, large parks and green spaces. A sociologist by profession, Mrs. Duplessis ran a consulting firm dedicated to improving the environmental practices of Quebec municipalities. She is a passionate environmentalist and bike enthusiast, and her achievements include the first *Ressourcerie* (Recovery centre) of Quebec, an environmental portrait of the island of Montreal and a strategic transportation plan for the metropolitan area. Mrs. Duplessis has taught the social and environmental impact of industries in the *École de technologie supérieure* (ÉTS) and set up a theatre group that has raised the awareness of over 150,000 children over the importance of the environment on a daily basis. She was also vice president of the Regional Environmental Council of Montreal. A citizen of the Plateau Mont-Royal for over twenty years and Borough Councillor since 2005, Mrs. Duplessis became involved in many issues, including the preservation of Fire Station #26, the weekly collection of compostable materials from 3000 households, as well as the development of social housing.

Braulio Ferreira de Souza **D**IAS

Executive Secretary
Secretariat of the Convention on Biological Diversity (CBD)
Montréal, CANADA

Bio: Dr. Dias has over three decades of experience in biodiversity science and policy and its implementation at national and international levels. He brings a unique combination of scientific training and extensive experience in negotiation. He obtained a BSc in Biological Sciences from the University of Brasilia and went on to obtain his PhD in Zoology from the University of Edinburgh in 1981. While working as division chief for environmental studies for the Brazilian Institute of Geography and Statistics, and as Associate Professor of Forest Protection and Ecology at the University of Brasilia, he became increasingly involved in the negotiations leading up to the adoption of the Convention on Biological Diversity (CBD). He was involved in the meetings of the Intergovernmental Negotiating Committee of the CBD in 1991 and 1992, served on the Brazilian Delegation for the United Nations Conference on Environment and Development in Rio de Janeiro in June 1992, as well as on the Intergovernmental Committee of the CBD in 1993 and 1994. Dr. Dias has since participated in each of the meetings of the Conference of the Parties (COP) to the Convention on Biological Diversity as a member of the Brazilian Delegation, and was one of the co-organizers of the eighth meeting of the Conference of the Parties, held in Curitiba (Brazil) in 2006. He has also been a member of the Brazilian Delegation in most of the meetings of the Subsidiary Body on Scientific Technical and Technological Advice (SBSTTA), and was vice president of the SBSTTA bureau representing Latin America 1994-1996. During the period 1992-2011, he participated extensively in the major inter-sessional meetings and workshops of the CBD, and played a prominent role in the preparation, conception and negotiation of the Strategic Plan for Biodiversity 2011-2020 and its Aichi Biodiversity Targets, which was adopted by Governments in Nagoya Japan in October 2010. His scientific background and training has been mobilized in the service of a number of international initiatives relating to biodiversity science and policy. He was a member of the Scientific Steering Committee and the Advisory Committee of the DIVERSITAS Program from 1997 to 1999, coordinator of the Steering Committee of the Inter-American Biodiversity Information Network (IABIN/OAS) from 1997-2002 and vice-president of the International Union of Biological Sciences (IUBS) from 2004-2007. Dr. Dias also was a member of the Scientific and Technical Advisory Panel (STAP/UNEP) of the Global Environment Facility (GEF) from 2006 to 2007. Dr. Dias' experience at the international level is informed by his work at the national level in Brazil in implementing the Convention on Biological Diversity. Among others, he coordinated the National Biodiversity Programme (PRONABIO) since 1994, coordinated the negotiations for the creation of Brazil's National Biodiversity Policy (1998-2002) and coordinated the National Biological Diversity Project – PROBIO (1996-2005). His interest in ways to mainstream biodiversity into the activities of other economic sectors was realized in his coordination of the National Biodiversity Mainstreaming and Institutional Consolidation Project – PROBIO II (2009-present) and his work on the relationship of business and biodiversity. He has occupied leading positions in the Brazilian Federal Government administration. Before joining the Secretariat, he was Secretary of Biodiversity and Forests at the Brazilian Ministry of the Environment since September 2010, and before that was Director for Biodiversity Conservation since 1999, overseeing national biodiversity and forest programs directly implemented by the Ministry of the Environment and the national programs implemented by institutes subordinate to the Ministry. Dr. Dias has joined the Secretariat at the beginning of the United Nations Decade on Biodiversity and the first years of implementation of the Strategic Plan for Biodiversity 2011-2020.

Russell **G**ALT

Program Manager

ICLEI - Local Governments for Sustainability

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Bio: Russell Galt is Program Manager of ICLEI – Local Governments for Sustainability’s Cities Biodiversity Center, based in Cape Town, South Africa. He advises cities worldwide on the conservation and sustainable use of natural resources. This entails developing and prescribing innovative tools and techniques for ecosystem management at the local level. He is a lead author of the Cities and Biodiversity Outlook and a representative in the Global Partnership on Local and Sub-national Action for Biodiversity. Concurrently, Mr. Galt is a member of the Environment and Energy Commission of the International Chamber of Commerce (ICC) as well as the ICC Task Force on Green Economy. Previously, he worked for the International Union for Conservation of Nature (IUCN) and Axiom ESKA Venture Capital in Brussels, Belgium.

Fabienne **G**IBOUDEAUX

Deputy Mayor in charge of green spaces and biodiversity
City of Paris, FRANCE

Bio: Fabienne Giboudeaux graduated in photography in 1980 at the University of Saint-Charles in Marseille and in urban studies in 2002 at Université Paris X - Nanterre. Elected in 2001 as local councillor in the 20th district of Paris, she became Deputy Mayor in charge of urban planning in this district up to 2008. In 2004, she became councillor of the City of Paris and, in 2006, was appointed chairman of the *Société d'économie mixte de la Ville de Paris* (SIEMP), a semi public company in charge of the eradication of unfit housing in the capital. In 2008, she was re-elected as councillor of Paris and designated as deputy mayor of Paris in charge of green spaces and biodiversity. Since then, her main achievements have been the elaboration of the Paris Biodiversity Plan and of EcoJardin, a national label to promote management practices of green spaces respectful of the environment.

Talk Title: Elaboration and implementation of the Biodiversity Plan of the City of Paris

Abstract: The Biodiversity Plan of Paris, adopted by the end of 2011, has the ambition to use all the vehicles of municipal action (town planning, public road network, management of green spaces, policy of purchases, etc.) to strengthen the place of nature there and reduce its impact on biodiversity. Symbolising space sharing that its protection requires, the presence of biodiversity in town is also an invaluable medium for raising the awareness of city-dwellers considering the numerous benefits it provides (countering heat islands, binding atmospheric pollutants, social link, etc.). The bet made by Paris is that experiencing nature’s benefits can only strengthen the acceptability of the necessary changes required to reduce the global impact of our cities on biodiversity – a key factor to save biodiversity knowing that 50% of the world’s population and 75% of the French population live in urban areas nowadays. This new approach requires a deep evolution of those who make the city. To facilitate it, the City of Paris opted for a resolutely participative approach with the elaboration of its plan by bringing together municipal

departments, associations, scientists, town planners, architects, i.e. all the biodiversity players. And once its Biodiversity Plan adopted, the City of Paris set up the Parisian Biodiversity Observatory to gather and make accessible works and inventories regarding biodiversity, to develop and give operational tools (for instance, specifications regarding the making of quality green roofs) and to finally promote the value of the presence of nature in cities to the general public.

Daniel **H**ODDER

Division Head
Strategies, Programs and Policies
Large Parks and Greening Management
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Bio: Daniel Hodder, who holds a BA in Anthropology and a Masters in Urban Planning, has nearly 30 years of experience in sustainable urban development. Mr. Hodder is currently Division Chief in the *Direction des grands parcs et du verdissement* (Large Parks and Greening Management) of the Ville de Montréal. He is in charge of a group of professionals responsible for developing the network of green spaces, the strategic planning of large parks and of innovative projects relating to greening, environmental management and urban biodiversity.

Martin **J**OLY

Team Leader
Ecological Heritage and Parks Management
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Bio: Martin Joly holds a master's degree in planning from the University of Montreal. His interests include landscape ecology and characterization of the territory. He has been working for the emergence of new practices to oversee initiatives for the protection and the conservation of natural habitats. Since 2004, he has been involved in the development of tools for the characterization and management of ecosystems and biodiversity, as well as the development of expertise in environmental analysis at the Ministry of Sustainable Development, Environment, Wildlife and Parks.

Gérald LAROSE

Gérald LAROSE

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Bio: Gerald Larose, who holds two master's degrees in theology and social work from the University of Montreal, was Chairman of the Confederation of National Trade Unions (CSN) from 1983 to 1999 and community organizer for the *CLSC Hochelaga-Maisonneuve*. Mr. Larose is a visiting professor at the School of Social Work of the University of Quebec in Montreal (UQAM). As a volunteer, he chairs the board of Insertech Angus, a social integration enterprise, and the *Caisse d'Économie Solidaire Desjardins*. He is also director of the Mont-Blanc Meetings Association -International Forum of the Social and Solidarity Economy (RMB/FIDESS).

Benoît LIMOGENES

Vice-President Biodiversity
Réseau Environnement

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Bio: Benoît Limoges holds a Master's degree in Biology from the University of Montréal. He worked in many governmental, nongovernmental or United Nations' organizations. While he worked for Sustainable development, Environment and Parks Ministry of Quebec, he coordinated the implementation of the Convention on biological biodiversity in this province. He worked in more than 10 countries, some of them in Africa and Latin America. Mr. Limoges currently leads the International Center of Expertise on Biodiversity and Ecosystem Services (ICEBES) of SNC-Lavalin. He is also Vice-President, Biodiversity, of the organization *Réseau Environnement*.

Talk Title: How banks contribute to biodiversity conservation : overview of some international standards

Abstract: To reduce their risks of investments, around 80 International banks use the Equator Principles and the Sustainability Framework of the International Finance Corporation (IFC), a World Bank group, to assess the sustainability of a project. One of the standards that it contains, the Performance Standard 6 (PS-6), applies to Biodiversity Conservation and Sustainable Management of Living Natural Resources. Clients of this bank have to follow these standards to obtain financing from the IFC. Other enterprises decide to follow it voluntarily. These standards recognize that the preservation of biodiversity and ecosystem services and the sustainable management of natural resources are important components of sustainable development. In the PS-6, the mitigation strategy comprises offset measures that can be implemented only after the mitigation of impacts has been demonstrated. This standard aims at no net loss of biodiversity. Other international initiatives will be also presented. Some examples of application of this standard will be also discussed.

David **M**ADDOX

Founder and Editor
The Nature of Cities, New York (USA)
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Bio: David Maddox is committed to the health of the natural environment and the sustainability, resilience and liveability of cities. After a PhD in ecology and statistics from Cornell University, he spent 12 years with the Nature Conservancy working on climate change and stewardship. David is Director of Science for the NYC Natural Areas Conservancy. He is also founder and editor of TheNatureOfCities.com, a collective blog on cities as ecological spaces, with 50 writers from around the world.

Talk Title: Intentional urban ecology – a pile of stones becomes a palace

Abstract: What are the cities that we want in 50 years? In 100? What do we want them to look like? What do we want them to not look like? There is a growing mass of knowledge about biodiversity, green spaces and ecological services in urban spaces. We increasingly appreciate that thinking of cities as ecological spaces has key value for resilience and sustainability. A separate line of thought connects green spaces to urban liveability. But these three organizing themes of urban green thought are not often connected as three aspects of the same fundamental imperative of urban design, which is that cities must be resilient, sustainable, and liveable. These three themes overlap, but are not the same. A resilient city may bounce back from shocks but not be sustainable. A sustainable city may be brittle (and therefore not truly sustainable). A sustainable and resilient city may not be liveable, and so in any ultimate sense be neither resilient nor sustainable. Let's create a research framework that integrates all three. Let's create cities that are palaces of green, grey and human that are resilient + sustainable + liveable and are valued explicitly as such.

André **M**ADER

Programme Officer
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Bio: Andre Mader is a South African Conservation Biologist who has spent the past eight years focusing on local governments and their contribution to the implementation of the Convention on Biological Diversity. Since 2006, Mr. Mader has been working for ICLEI – Local Governments for Sustainability, an international network of more than 1,000 local governments working for sustainability. For the past two years, he has been seconded to the Secretariat of the Convention on Biological Diversity by ICLEI, to assist the Secretariat in subnational implementation of the Convention.

Talk Title: The Economics of Ecosystems and Biodiversity

Abstract: Ecosystem valuation is a key tool in the toolkit of the biodiversity practitioner or policy-maker. It is also an often-misunderstood concept and one that should be used only with good information about a particular situation or scenario. Although ecosystem valuation is typically considered to involve attaching a dollar value to nature, it can refer to monetary or non-monetary; quantified or qualified; direct or indirect valuation. A number of publications and tools have been produced recently to assist in understanding and applying the concept of ecosystem valuation. One of the best-known is TEEB – The Economics of Ecosystems and Biodiversity. Various publications have been produced under the TEEB banner including two that are specifically aimed at local and subnational administrators. “TEEB in Local and Regional Policy and Management” serves as a broad source of reference, while “TEEB for Cities” suggests steps that a local government – especially a city – can take to engage in ecosystem valuation.

Nicole **M**ARZOK

Project Coordinator
ICLEI Canada
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Bio: Nicole Marzok is Project Coordinator for ICLEI Canada’s biodiversity efforts. Since starting at ICLEI in 2009, she has taken leadership in developing partnerships with municipalities across Canada and internationally, and coordinates the production of capacity-building resources, case studies, webinars, workshops and forums. Nicole organized ICLEI Canada’s first Livable Cities Forum in 2011, under the theme, “Designing Biodiversity Friendly Communities”, and authored the “Cities and Biodiversity Case Study Series” released in 2010 at the international UN Conference COP10. She is currently focusing on developing hands-on tools for cities on urban biodiversity management and ecosystem services, and continues to support ICLEI Canada’s broader program work through visual communication and graphic design development. Nicole holds an Honours Double Major, Bachelors of Arts in Urban and Environmental Studies from York University in Toronto, Canada, where she focused on environmental planning practices, urban sustainability, and ecological restoration.

Talk Title: Mainstreaming and Engaging: How Local Governments are Bringing Together their Partners to Protect Biodiversity

Abstract: At the local level of government, municipalities are closely linked to residents, businesses, organizations and citizen groups. Urban biodiversity and the protection of natural areas has become a locally driven issue that has fostered a diverse range of partnerships in the most unlikely places. ICLEI Canada will highlight how municipalities are partnering with local stakeholders as they work towards mainstreaming the biodiversity issues and engaging a wider group on the importance of the health and well-being of our social and environmental communities through urban nature. With an emphasis on global trends and case studies, this presentation offers a range of initiatives in place to get people acting and talking about biodiversity.

Karel **M**AYRAND

Executive Director
David Suzuki Foundation's Quebec Office
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Bio: Karel Mayrand, General Manager for Quebec of the David Suzuki Foundation and president of Climate Reality Canada, an organization founded by Al Gore. He has published in 2012 a book called *A Voice for the Earth* to McClelland & Stewart. Karel Mayrand work for fifteen years in the field of sustainable development. He co-founded the Unisféra International Centre, a research center on sustainable development, and advised several governments and UN agencies. It was also recommended Pierre Marc Johnson, former Premier of Quebec, on the challenges of sustainable development for over a decade. Karel is co-author of *Governing Global Desertification*, published in 2006 by Ashgate Aldershot (London). He was a fellow Action Canada in 2005 and finalist in 2008 Arista as a socially responsible entrepreneur of the year for throwing Planetair, a Canadian leader in offsetting greenhouse gas emissions. He sits on the board of the Regional Environmental Council of Montreal.

Talk Title: A full scale greenbelt: investing in our green infrastructure

Abstract: Peri-urban green belts help maintain ecosystems, quality of life and economic development of cities around the world. The value of ecosystem goods and services generated by these greenbelts is largely unknown and little consideration in planning decisions. This necessarily leads to an erosion of natural capital cities with impacts increasingly important ecosystems and walks of life, impacts will worsen as a result of climate change. The David Suzuki Foundation has conducted studies to determine the value of ecosystem goods and services generated by the green belts of Toronto, Montreal and Vancouver, which adds to the activist argument for the protection of natural environments. The presentation will focus on the ecological goods and services and the use which may be made of these values in decision making on urban development and conservation of the natural environment issues.

Jean **N**OLET

Chief Executive Officer
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Bio: Jean Nolet is a recognized expert in environmental economics, food, energy and climate change issues. He has worked in these fields of expertise for over 20 years at both the academic and governmental levels before founding *ÉcoRessources* in 2004. Since then, he has chaired or participated in the development of over a hundred studies in several economic sectors, providing as such leadership in cost-benefit analyzes of a variety of projects in which the value of environmental goods and services was measured using various existing methods available to economists.

Talk Title: Assessing the value of environmental goods and services: Quebec examples

Abstract: In this presentation, the usefulness of economic valuation of environmental goods and services will be illustrated using examples applied in Quebec. The aim is to show how to go about assessing the values of elements as intangible as the beauty of a landscape, improving water or air quality, carbon sequestration, or bee pollination with various economic tools, and how this can help decision making for public and private decision makers.

Sylvain **O**UELLETTE

Cleantech and Nanotechnology Director
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Bio: Sylvain Ouellette has worked for more than 15 years in the field of general management, project management and administration to small and medium enterprises operating on a national and international level in the field of environment.

Talk Title: Urban Biodiversity: The Challenge of Eco-campus Hubert Reeves

Abstract: Recognized as a world-class centre of excellence in technological and scientific research, Technoparc Montréal attracts the largest corporations and most innovative SMEs in the world. Surrounded by a natural wooded habitat, a regional park and located only 10 minutes from Montreal's International airport, it is a prime destination for R&D businesses and innovative cleantech companies. Eco-campus Hubert Reeves is the largest ecological site in Canada dedicated to the implementation of clean technology companies: 12 LEED buildings projected, green Technology know-how, 50% green space in a natural wooded environment.

Grant **P**EARSELL

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Bio: Grant Pearsell is the Director of the Office of Biodiversity for the City of Edmonton. This office has two main divisions: Urban Ecology and Parkland Policy. Mr. Pearsell is a city planner and member of the Canadian Institute of Planners with 30 years experience in environmental management. He is a Director with the Edmonton and Area Land Trust and past Chair of the Alberta Land Trust Alliance.

Talk Title: Engaging Edmonton's Leaders in Community Stewardship: City of Edmonton Master Naturalist Program

Abstract: The City of Edmonton has a long history of protecting biodiversity since its incorporation in 2004. As a result, Edmonton is the home of the largest municipally owned park in Canada and currently has 3800 ha of natural areas within its boundaries. As the conservation lands have increased in area, so have the management responsibilities. In order to manage this challenge, the City of Edmonton has developed and implemented a Master Naturalist Program to engage community leaders in not only the stewardship of Edmonton's natural areas but nature everywhere in the city. This program has been designed to engage Edmontonians in new ways and i) increase the City's capacity to manage natural areas, ii) build a well connected network of conservation partners, and iii) support a system of shared conservation education. As the program enters its fourth year, the City of Edmonton is experiencing strong community uptake and positive outcomes on the ground.

Jose **P**UPPIM DE OLIVEIRA

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Bio: Jose Antonio Puppim de Oliveira is Assistant Director and Senior Research Fellow at the United Nations University Institute of Advanced Studies (UNU-IAS). He has academic interests in the political economy of sustainable development. He is particularly interested in researching patterns of environmental governance and policy implementation at different levels, looking at how global policies are translated into local policy implementation. In UNU-IAS, Jose coordinates the Sustainable Urban Futures programme and the Master Programme in Environmental Governance. Before coming to UNU-IAS, he worked at the University College London (UK), the Brazilian School of Public and Business Administration (EBAPE) of the Getulio Vargas Foundation (FGV), and at the University of Santiago de Compostela (Spain) as a European Commission's Marie Curie Fellow, as well as instructor, consultant and researcher for several organizations such as the OECD, the World Bank Institute, state and national governments, and various NGOs and small and large firms in the private sector. His experience includes research and teaching activities in Brazil, Argentina, Ecuador, Uruguay, USA, Japan, Germany, Spain, Portugal, United Kingdom, Ghana and Angola. He has published seven books and a number of articles in peer-reviewed journals. Jose holds a Ph.D. in Planning from the Massachusetts Institute of Technology (MIT, USA), a Master of Environmental Science from Hokkaido University (Japan) and a degree in Engineering from the Aeronautics Technological Institute (ITA), Brazil.

Talk Title: Integrating Biodiversity with Local and City Planning: The Experience of the Studios in the Development of Local Biodiversity Strategy and Action Plans

Abstract: During the 10th Conference of the Parties of the Convention on Biological Diversity (CBD COP-10) held in Nagoya, Japan, in October 2010, the Decision X/22 was adopted endorsing a "Plan of Action on Sub-National Governments, Cities and Other Local Authorities for Biodiversity (2010-2020)". Nevertheless, there is a need to build tools that facilitate cities and local and sub-national governments in the implementation of this decision. Local Biodiversity Strategies and Action Plans (LBSAP) can be the backbone for integrating biodiversity issues locally, while also advancing National Biodiversity Strategy and Action Plans (NBSAP) and CBD efforts. Nevertheless, developing a comprehensive LBSAP has several conceptual and practical challenges. How to incorporate biodiversity in local planning is a recent topic in practice, as well as in universities, particularly urban planning schools. Typical planning tools are limited in ability

to address biodiversity. However, students of planning today will be the urban planners of tomorrow, who will influence the way cities are planned and developed. Therefore, UNU-IAS in partnership with ICLEI and SCBD worked together with eight universities around the world launching studios aimed at developing LBSAP to understand the challenges of planning for biodiversity in local settings. The studios serve to both think about new techniques for working with biodiversity in cities as well as develop teaching material for promoting learning of biodiversity in cities. The presentation summarizes the main lessons from the studios for developing LBSAP guidelines in eight cities around the world.

François **R**EEVES

Interventional Cardiologist
Associate Clinical Professor of Medicine
Faculty of Medicine | Department of Environmental Science
University of Montréal (CANADA)

Bio: François Reeves works as interventional cardiologist at the CHUM (Montréal's hospital) and *the Cité de la Santé* of Laval. As Associate Professor of Medicine at the University of Montréal and clinical researcher, he has two landmark publications to his credit: "*Prévenir l'infarctus ... ou y survivre*" (Preventing heart attacks... or surviving) in 2007, and "*Planète Cœur: santé cardiaque et environnement*" in 2011, which English version will be published shortly. Dr. Reeves regularly gives talks and lectures on the relationship between the environment, trees and cardiovascular health, and is the proponent of a Chair on environmental cardiology at the University of Montreal. Since 2007, he has been the proponent of Arbour Day (25 September 2013) within the healthcare system of Laval and of all of Quebec's healthcare centres (CSSS) since 2012. Dr. Reeves is also a member of the scientific circle of the David Suzuki Foundation, of the Board of Directors of SOVERDI and Chairman of the health/environment committee of the Francophone Physicians of Canada. Fascinated by the environment/health relationship, Dr. Reeves has compiled more than 500 scientific publications on the environment and cardiovascular risk factors for the production of *Planète Cœur*. Its last chapters are devoted to the benefits of a green environment, always managing to convince his audience that urban biodiversity is a key factor in cardiovascular health.

Talk Title: Red and Green: Heart Health and Biodiversity

Abstract: Cardiovascular disease risk factors, which were rare in pre-industrial people and the first cause of death worldwide nowadays, are well identified and traditionally a matter of heredity and individual lifestyles. More recently, science documents the strong influence of the environment on the risk of developing heart diseases. In addition to fossil fuel pollutants and food denaturation by industry, the presence of green items in our environment greatly influences the occurrence of cardiovascular diseases or not. Trees and their inherent biodiversity contribute positively to the quality of life and health in every aspect: sociological, psychological and physiological. More specifically on the heart level, it is acknowledged that the difference in cardiovascular mortality between the rich and the poor is cut by half in green habitats compared to urban ones. The massive loss of trees leads to a dramatic spike in deaths, as proven in U.S. states where the emerald ash borer, an invasive beetle that feeds only on ash trees, has destroyed millions of trees: over 15,000 cardiovascular deaths and 6,000 lung deaths were recorded there. The presentation will review multiple positive health impacts of urban biodiversity, pollution control in Shinrin-Yoku.

Luc **R**OBITAILLE

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Chair of the Canadian Business and Biodiversity Council
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Bio: Luc Robitaille has been the Corporate Director of Environment for Holcim (Canada) Inc. for nine years. He has been the chair of Environmental Committee of the Cement Association of Canada from 2006 to 2011. He has been on the Board of Directors of the Conseil Patronal de l'Environnement du Québec for the past 5 years. Mr. Robitaille is also a member of the Leadership Council of the Network for Business Sustainability and was recently nominated as Chair of the Canadian Business and Biodiversity Council. Mr. Robitaille received his BScA in geological engineering in 1981 from Laval University in Quebec City and subsequently his MSc in contaminant hydrogeology from Wright State University in Dayton, Ohio. Prior to joining Holcim (Canada) Inc., he worked for more than 20 years, mostly in the US Mid-Atlantic States, in Quebec and in North and West Africa. At Holcim (Canada) Inc., he heads the environmental activities for the company's two cement plants and for its concrete plants, aggregate quarries and pits, asphalt plants, construction divisions and terminals located throughout Canada.

Talk Title: Urban biodiversity management at Holcim Canada

Abstract: Most of Holcim Canada operations are located in urban or suburban areas, including its two cement plants, dozens of aggregate quarries and of ready-mix concrete plants located in Quebec and Ontario. These sites have been assessed and are managed under Holcim's global Biodiversity Management System which was developed in collaboration with the International Union for Conservation of Nature (IUCN). Holcim's biodiversity program involves the participation of various local environmental organizations toward the implementation of its action plans. A number of sites have been undergoing progressive rehabilitation for several decades which allows Holcim to measure the success of its approach to date. In fact, it is possible, at a large number of sites to demonstrate a positive long term biodiversity impact even in urban areas where Holcim has been operating in some cases for more than 60 years. This presentation will provide a brief overview of Holcim's biodiversity management system and will provide examples from various urban sites located in Quebec and Ontario.

Andrew **R**UDD

Human Settlements Officer, Urban Environment
Urban Planning and Design Branch
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Bio: Andrew Rudd is the Urban Environment Officer in the Urban Planning and Design Branch of UN-Habitat. He serves as focal point for the agency's work on sustainable urban configuration, green economy and cities and biodiversity, and has represented UN-Habitat in the Environmental Management Group, the International Resource Panel's Cities Working Group and the Global Partnership on Cities and Biodiversity. Mr Rudd managed the *Urban Patterns for*

a *Green Economy* quick guides series, which were launched at Rio+20. At UN-Habitat he also coordinated a photographic investigation of rapidly-growing cities and the agency's participation in the Shanghai World Expo 2010. Previously Mr Rudd worked as an architect in New York on projects related to transport master planning and retail concept design. He is a contributing author for *The Nature of Cities* blogspace, and has also written for the *Cities and Biodiversity Outlook* (2012), *Working towards a Balanced and Inclusive Green Economy* (2011), UN-Habitat's *State of the World's Cities Report 2010: Bridging the Urban Divide* and the LSE Cities Programme's *Housing and the City* (2007). Mr Rudd studied architecture at Yale and city design at LSE.

Talk Title: Integrating Biodiversity Considerations in Urban Planning

Abstract: To better respond to the needs of fast-growing, intermediate-sized cities in the developing world, UN-Habitat proposes a series of urban patterns that will help these cities transition to a green economy. Focused on urban ecosystems, density, infrastructure and enterprises, the aim is to help city-regions strengthen their spatial planning strategies for more sustainable configurations. Cities in the developing world have the advantage of transitioning early, before they are locked into inefficient patterns.

Stella T ARNEY

Chair of Education, Dumbarton Oaks Park Conservancy
Advisor, Sustainable Landscape Design Program
George Washington University (USA)

Bio: Stella Tarnay is the Chair of Education for Dumbarton Oaks Park, a historic woodland landscape in Washington DC. She serves as advisor to City Wildlife and the Sustainable Landscape Design Program at George Washington University. Before working with natural systems, she was the Senior Policy Officer for Green Building in the District of Columbia Department of the Environment. She was a participating member of the Nature and Green Economy working groups for Sustainable DC.

Talk Title: Innovative Initiatives for Nature and Biodiversity in Washington DC | New Stakeholders/Public Awareness

Abstract: While national policies for the environment are debated in Washington DC, local NGOs and the capital's city government are taking innovative steps to support wildlife and natural systems in a major urban area. This presentation will highlight initiatives that are re-negotiating the relationship with nature, and are growing new support for biodiversity. Washington DC's natural landscape and biological heritage cuts across federal, local, community, and even international boundaries. For biodiversity to be protected and enhanced, projects need to cut across these boundaries to engage important stakeholders. Four projects highlight how this is being done to reach new audiences and gain support for biodiversity: Dumbarton Oaks Park Conservancy's restoration of an historic landscape with native species and in partnership with the National Park Service; the establishment of City Wildlife, an NGO that is engaging city government and local residents to protect urban wildlife; the cross-lateral effort to clean and protect the Anacostia River, which runs through some of the poorest neighbourhoods in the city; and the Mayor's Sustainable DC Plan, which strives to make Washington DC "the greenest city in the nation." The projects covered are unique for their broad political engagement and also for their innovative outreach to audiences. Dumbarton Oaks Park Conservancy is working with local universities, school children, and surrounding embassies as

well as the National Park Service to make friends for the park. City Wildlife has established an emergency "hotline" for sick and injured wildlife that residents can call to find out how they can help, and the organization has initiated a building "lights out" campaign to protect migratory birds. Children in Anacostia river neighbourhoods are being invited to become "river scientists" and "green team" leaders to protect the river. The Sustainable DC Plan establishes policies that will support landscape corridors and tree canopy throughout the city, in partnership with local organizations. The projects to be discussed offer promising examples of how engaged partners and organizations can protect biodiversity heritage in our cities.

Jacques **T**OUCHON

Deputy Mayor of Montpellier
Delegate for prevention, environment, Healthcare and Biodiversity
Ville de Montpellier

Bio: Pr. Jacques Touchon was the Dean of the School of Medicine from 2000 to 2008. In 2004, he became the Chief of Neurology at the Montpellier University Research Hospital. Since 2000, he has been the director of the Center for Memory Resources and Research (CMRR). He is now the Deputy Mayor of Montpellier in charge of prevention, environment, healthcare and biodiversity. He was awarded the academic palms for his research on Alzheimer's disease in 1999, the Pinel Prize in 2000 and the French Legion of Honour in 2007.

Talk Title: Biodiversity Strategy for the City of Montpellier: what are the tools required to integrate biodiversity in the heart of urban policy?

Abstract: The City of Montpellier has experienced the fastest population growth in France. To take up this challenge, Montpellier has initiated strategies for the protection of its biodiversity as early as 2008. The City has its Biodiversity Plan, one of the first launched in France, and whose implementation has helped to change space management through a better integration of urban nature and educating citizens on biodiversity and how to protect it. The City values its biodiversity and has improved the management of its green spaces through Mediterranean plant species, controlling invasive species, saving water and avoiding the use of phytosanitary treatments. In the meantime, Montpellier has developed the concept of Ecocity, a comprehensive policy incorporating sustainable development concepts and respect for biodiversity. The AURA guide followed, which is intended for the City's planners. It completed this system and helps to assess, based on sustainable development indicators, the quality of development projects. More recently, and in order to better know and therefore better protect its heritage, the City launched naturalist inventories on its territory. These studies will help refine the project to restore the connections between spaces through an urban green and blue belt. By integrating biodiversity at the heart of its policy, the City of Montpellier wishes to take control of its future by putting humans in urban life and developing the role of nature in the city. This ambition is part of the Montpellier urban project for 2040.

Wendy **Y** AP

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Bio: Wendy YAP has been with the National Parks Board of Singapore (NParks) for eight years implementing Singapore's regional and international commitments related to biodiversity. Wendy and her colleagues at NParks assisted in the development of the Singapore Index on Cities' Biodiversity which is a monitoring tool for cities to evaluate their biodiversity conservation efforts. Prior to joining NParks, she was the Senior Officer for the Environment at the Association of Southeast Asian Nations (ASEAN) for five years; and before that, she headed the Policy Unit of the World Wide Fund for Nature, Malaysia (WWF Malaysia).

Talk Title: Singapore - A City in a Garden

Abstract: Singapore is a highly urbanised city-state of about 716 square kilometres and with a population density of 7,422 persons per square kilometre (2012). The presentation will highlight the acute challenges of balancing economic and social development, and biodiversity conservation in a land scarce city-state. It will also showcase its efforts in making of Singapore a City in a Garden.