



**BIODIVERSITY WITHOUT BOUNDARIES 2017**  
 International NatureServe Network Conference  
 April 9-13, 2017  
 Ottawa Marriott Hotel, 100 Kent Street  
 Ottawa ON K1P 5R7

**AGENDA**

<b>SUNDAY 9 APRIL</b>	9:00 AM - 6:00 PM	Field Trips
	2:00 - 5:00 PM	NatureServe Board of Directors Meeting - Cartier III
	3:00 – 8:00 PM	Registration – Alta Vista (2 <sup>nd</sup> floor)
	6:00 - 9:00 PM	Joint Section Council Meeting - Cartier III
	8:30 -10:30 PM	Film Screening Every Living Thing: experiencing a bioblitz – Victoria North

**POSTERS & SPONSOR EXHIBITS IN VICTORIA SOUTH – MONDAY THROUGH THURSDAY**

<b>MONDAY 10 APRIL</b>	8:30 - 9:00 AM	Coffee and Light Breakfast - Victoria South <i>Sponsored by Manitoba Habitat Heritage Corporation and the Manitoba Government Critical Wildlife Habitat Program</i>
	9:00 - 9:45 AM	Opening Remarks: Bruce Bennett, Chair, NatureServe Canada and Gregory A. Miller, President & CEO, NatureServe - Victoria North
	9:45 - 10:30 AM	Blessing Ceremony, Annie Smith-St. Georges, Algonquin Anishinabeg First Nation and Plenary: Henry Lickers, Indigenous Environmental Knowledge - Victoria North
	10:30 - 11:00 AM	Break - Victoria South
	11:00 - 11:30 AM	Plenary - Victoria North
	11:30 AM - Noon	Alumni and Network Program Conservation Awards - Victoria North

	Noon - 1:30 PM	Lunch - Create Your Own Group			
	1:30 - 3:00 PM	<b>Obtaining the Knowledge to Make Good Decisions: Surveying Biodiversity - Cartier I</b>	<b>Developing and Implementing Good Plans: Sustainable Industry - Cartier II</b>	<b>Measuring Progress and Communicating Success – Cartier III</b>	<b>Working Groups - Capital/Carleton</b>
		<p>Karen Cieminski, Minnesota Department of Natural Resources (Moderator and Speaker) - Survey123 for ArcGIS to Collect Observation Data - MN NHP Experiences;</p> <p>Brent Kinal, New York Natural Heritage - Developing custom field data collection workflows compatible with a shared enterprise database using Esri Survey-123;</p> <p>Samuel Brinker, Ontario Ministry of Natural Resources and Forestry - Five Years of Botanical Surveys in Ontario's Far North;</p> <p>Wesley Knapp, North Carolina Natural Heritage - A baseline for the Anthropocene; An overview of Plant Extinction in North</p>	<p>Reg Melanson, Canadian Business and Biodiversity Council, and Luc Robitaille, VP Responsible Care, Chemistry Industry Association of Canada (Co-Moderators) - Biodiversity Data Needs to Inform Government and Industry Decision-making;</p> <p>Tara Shea, Director, Towards Sustainable Mining, Mining Association of Canada;</p> <p>Kate Lindsay, Director, Environmental Regulations and Conservation Biology, Forest Products Association of Canada;</p> <p>Channa S. Perera, Director, Generation &amp; Sustainability, Canadian Electricity Association;</p> <p>Drew Black, Director of Environment and Science Policy, Canadian Federation of Agriculture.</p>	<p>Lori Scott, NatureServe (Moderator and Speaker) - Visualizing Corporate Conservation Efforts</p> <p>Amelia Argue, Ontario Ministry of Natural Resources and Forestry - Reporting on the State of Ontario's Biodiversity</p>	<p>Jennifer Heron, BC Ministry of Environment – Introduction to session;</p> <p>Colin Jones, Ontario Natural Heritage Information Centre, Nigel Raine, University of Guelph (co-presenters) - Ontario Pollinators: Monitoring Biodiversity and Assessing Habitat;</p> <p>Syd Canning, Canadian Wildlife Service, Environment and Climate Change Canada - Monitoring Bumblebees in the Yukon; Finding New Gold in the Klondike;</p>

		America north of Mexico			
	3:00 - 3:30 PM	Break - Victoria South			
	3:30 - 5:00 PM	<b>Obtaining the Knowledge to Make Good Decisions: Surveying Biodiversity - Cartier I</b>	<b>Developing and Implementing Good Plans: Future Directions in Conservation on Managed Lands – Cartier II</b>	<b>Measuring Progress and Communicating Success: Case Studies – Cartier III</b>	<b>Working Group - Capital/Carleton</b>
		<p>David Mazerolle, Atlantic Canada Conservation Data Centre - Filling knowledge gaps in Atlantic Canada through targeted fieldwork;</p> <p>Carla Church, Manitoba Conservation Data Centre (moderator and speaker) - Tigers on the Prowl: Confusion and Conservation of a Rare Salamander;</p> <p>Charles Francis, Canadian Wildlife Service - Developing an Avian Monitoring Strategy in Canada</p>	<p>Future Directions in Conservation on Managed Forest Lands Session format and time: Series of 15-20 minute talks with Q/A, 90 minutes Session Moderators: Healy Hamilton (NatureServe) and Paul Trianosky (SFI)</p> <p>Speaker 1: Quantifying Conservation Value of SFI-Certified Forests, Part I Speaker: David Wiedenfeld, American Bird Conservancy</p> <p>Speaker 2: Quantifying Conservation Value of SFI-Certified Forests, Part II Speaker: Rickie White, NatureServe</p> <p>Speaker 3: Climate Change Adaptation: Using EDNA technology for better wildlife corridor in Eastern Canada. Speaker: Joël Bonin, Nature Conservancy of Canada</p>	<p>César Lucio, Pronatura Veracruz - Assessing the performance of nucleation based techniques for mangrove forest restoration in Alvarado Lagoon System, Veracruz;</p> <p>Laura Landa Libreros, Pronatura Veracruz - Native seed preserves as a tool for diversifying ecosystem restoration in México;</p> <p>Bernardino Villa-Bonilla, Aníbal F. Ramírez Soto, Ixchel Sheseña Hernández and Laura Landa Libreros, Pronatura Veracruz - Biodiversity nurseries, a key tool for effective ecological restoration in the Gulf of México</p>	<p>Cory Sheffield, Royal Saskatchewan Museum - Review of Bee Systematics, Ecology and Conservation in Canada;</p> <p>Jennifer Heron, British Columbia Ministry of Environment - Conservation status assessments of bees: challenges and discussions, workshop and discussion session - need to devise agenda.</p>

			<p>Speaker 4:          Keeping the Villains at Bay:          Using iMap Invasives for Early          Detection in America's most          heavily forested state          Speaker: Andy Cutko, Maine          Department of Agriculture,          Conservation, and Forestry</p>		
	5:00 – 6:00 PM	Tools Café – Victoria South			
	6:00 - 10:00 PM	NatureServe Canada Welcome Reception & Trivia Contest – Summit Room (29 <sup>th</sup> floor)			
<b>TUESDAY 11 APRIL</b>	8:30 - 9:00 AM	Coffee and Light Breakfast – Victoria South <i>“Northern Café”, sponsored by Yukon CDC, Northwest Territories CDC, Nunavut CDC</i>			
	9:00 -9:05 AM	Announcements - Victoria North			
	9:05 - 9:25 AM	Network Program Scientific/Technical Achievement and Collaboration/Mentoring Awards - Victoria North			
	9:25 - 10:00 AM	Plenary: Steve Hounsell, Chair, Ontario Biodiversity Council - Towards an Ecologically Sustainable Future: Why Mainstreaming Biodiversity Matters - Victoria North			
	10:00 - 10:30 AM	Break - Victoria South			
	10:30 AM - Noon	<b>Obtaining the Knowledge to Make Good Decisions: Surveying Invasives - Cartier I</b>	<b>Developing and Implementing Good Plans: Using NatureServe Data and Products to Plan for Conservation of Species and Habitats in Managed Forest Ecosystems - Cartier II</b>	<b>Measuring Progress and Communicating Success - Cartier III</b>	<b>Working Groups - Capital/Carleton</b>
		<p>Jennifer Dean, New York Natural Heritage (Moderator and Speaker) - Spatial prioritization of invasive species management and survey efforts;</p> <p>Amy Jewitt, Western Pennsylvania</p>	<p>Using NatureServe Data and Products to Plan for Conservation of Species and Habitats in Managed Forest Ecosystems.          Session format and time: Series of 15-20 minute talks with Q/A at end, 90 minutes total</p>	<p>Species Distribution Modeling – A Tool for Improving Conservation - Dan Campbell, Syngenta – The Need for Better Distribution Data for T&amp;E Species          - Stinger Guala, USGS – A National Vision for Improved Biodiversity Data and the Role of SDM</p>	<p>Building the Reference Network of Benchmark Ecosystem Sites Workshop – Don Faber-Langendoen (Senior Ecologist, Northeastern North America, NatureServe).          a) <i>Opening remarks</i>          b) <i>The goals of reference networks for ecosystems.</i> (10 min)</p>

		<p>Conservancy - iMapInvasives Promotes a Better Understanding of Invasive Species;</p> <p>Michael Oldham, Ontario Natural Heritage Information Centre - Monitoring Exotic Plant Species Along Northwest Territories Highways;</p> <p>Bruce Bennett, Yukon Department of the Environment - Native Plant Range Expansion and Blurring Boundaries Between Native and Invasive;</p>	<p>Session Moderators: Andrew DeVries (SFI) and Rickie White (NatureServe)</p> <p>Speaker 1: Using NatureServe Data to Plan and Manage for Critical Species and Habitat: Examples from Port Hawkesbury Speaker: Andrew Fedora, Port Hawkesbury Paper</p> <p>Speaker 2: How a provincial government is utilizing NatureServe data and tools. Speaker: Jim Mackenzie, Coordinator, Ontario Natural Heritage Information Centre</p> <p>Speaker 3: Nanabush and the Reconciliation of Indigenous values in Canadian forestry Rosanne Van Schie MFC, Wolf Lake First Nation</p>	<p>-Network Distribution Modeling Use Cases – Presented as a series of short talks highlighting how NatureServe network programs are using species distribution modeling to address conservation needs. Includes presentations from New York, Pennsylvania, Virginia, Saskatchewan, Colorado, Montana, Oregon, and NatureServe.</p>	<p>Joe Rocchio (Senior Vegetation Ecologist, Washington DNR, Natural Heritage Program) <i>Identifying Washington’s Benchmark Wetlands. An Approach Based on Ecological Integrity, USNVC, and Natural Area Preserves.</i> (10 min)</p> <p>Andy Cutko (Ecologist, Maine Natural Areas Program, Maine Department of Agriculture, Conservation and Forestry. <i>Reference Wetlands in Maine: EIA, Ecological Reserves, and Key Questions</i> (20 min)</p> <p>Eric Sorenson (Community Ecologist, Natural Heritage Inventory, Vermont Fish and Wildlife Department). Using natural community element occurrences as conservation targets in Vermont’s Landscape Conservation Design (20 min)</p> <p>Panel Discussion with Participants (30 min)</p>
	Noon - 1:30 PM	Lunch - Create Your Own Group			
	1:30 - 3:00 PM	<b>Obtaining the Knowledge to Make Good Decisions: Threat Assessment - Cartier I</b>	<b>Developing and Implementing Good Plans: Energy - Cartier II</b>	<b>Measuring Progress and Communicating Success: Mitigation - Cartier III</b>	<b>Working Groups - Capital/Carleton</b>

		<p>Jenna Quinn, Rare Charitable Research Reserve - Long Term Monitoring Initiative to Inform Management Decisions</p> <p>Sybil Feinman, Canadian Wildlife Service - Drawing relationships between sectors and the specific activities which threaten biodiversity;</p> <p>Christopher Tracey, Pennsylvania Natural Heritage Program - Total Species Score for Large Scale Risk Assessment;</p>	<p>Erin Chen, NatureServe (Moderator), Gregory Miller, Ph.D. - NatureServe -Energy and Biodiversity in an Era of Global Change;</p> <p>Jacqueline Dennett, U. of Alberta - Enduring disturbance: rare vascular plants in Alberta's oil sands: Ann Smreciu, Wild Rose Consulting - A Cooperative Effort to Maintain Biodiversity in Alberta's Oil Sands</p>	<p>Nicole Firlotte, Manitoba Sustainable Development (Moderator and Speaker) - Chimney Swift Habitat Loss A Mitigation Case Study;</p> <p>Robert Popp, Vermont Natural Heritage - Assisted Migration: Context, Risks, and Opportunities</p>	<p>NatureServe Species Distribution Modeling Workshop - Regan Lyons Smyth and Healy Hamilton, NatureServe</p>
	3:00 - 3:30 PM	Break – Victoria South			
	3:30 - 5:00 PM	<b>Obtaining the Knowledge to Make Good Decisions: Status Assessments - Cartier I</b>	<b>Developing and Implementing Good Plans: Minerals, Agriculture and Net Benefits - Cartier II</b>	<b>Measuring Progress and Communicating Success: Restoration - Cartier III</b>	<b>Working Groups - Capital/Carleton</b>

		<p>Rémi Hébert, Canadian Wildlife Service - Wild Species 2015: The General Status of Species in Canada;</p> <p>Suzanne Carrière (Government of the Northwest Territories, Northwest Territories Conservation Data Centre). A Look North: The NWT Species General Status Ranking Program;</p> <p>Bruce Bennett (Government of Yukon, Yukon Conservation Data Centre), Syd Cannings (Government of Canada, Environment and Climate Change Canada), and Randi Mulder (Government of Yukon, Yukon Conservation Data Centre). Assessing 5739 Yukon species: Beringia finds a place in the General Status Program;</p> <p>Guy Jolicoeur (Government of Québec, Québec Natural Heritage Information Centre).</p>	<p>Shara Howie, NatureServe (Moderator), Ashlea Frank, Compliance Services International - Net Conservation Benefit Approaches Designed for Endangered Species and Pesticides;</p> <p>Chris Friesen, Manitoba Conservation Data Centre - Pits and Plants: Gravel Extraction and Rare Species;</p> <p>Meg Southee, Wildlife Conservation Society Canada - How is mineral exploration affecting caribou ranges in Ontario?</p>	<p>Climate Smart Restoration - Erin Chen, NatureServe (Moderator), Lori Scott, Nicholas Moy, NatureServe – Climate Smart Tool;</p> <p>Sarah Marshall, Colorado Natural Heritage Program, Colorado’s Watershed Restoration Toolbox</p>	<p>NatureServe Species Distribution Modeling Workshop - Regan Lyons Smyth and Healy Hamilton, NatureServe</p>
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		<p>Québec CDC and NGSWG: Working Together Towards the Same Goal;</p> <p>Lea Gelling (Government of British Columbia, British Columbia Conservation Data Centre). BC embraces General Status;</p> <p>Jennifer Shaw (Government of Canada, Fisheries and Oceans Canada). Assessing Aquatic Species for the General Status Program;</p> <p>Amie Enns (NatureServe Canada). NatureServe Canada National Office Support for the General Status Program;</p>			
	5:00 – 6:00 PM	Tools Café – Victoria South			
	6:00 - 9:00 PM	NatureServe Conservation Award - Victoria North			
<b>WEDNESDAY 12 APRIL</b>	8:30 - 9:00 AM	Coffee and Light Breakfast - Victoria South <i>Sponsored by Atlantic Canada CDC</i>			
	9:00 -9:05 AM	Announcements - Victoria North			
	9:05 - 9:20 AM	Lifetime Achievement Award - Victoria North			
	9:20 - 10:00 AM	Plenary: Gregory A. Miller, President & CEO NatureServe - Strategy for NatureServe and the Network - Victoria North			
	10:00 - 10:30 AM	Break - Victoria South			



	10:30 AM - Noon	<b>Obtaining the Knowledge to Make Good Decisions: Classification and Mapping - Cartier I</b>	<b>Developing and Implementing Good Plans: Planning for Biodiversity - Cartier II</b>	<b>Strengthening the Network: Clients - Cartier III</b>	<b>Working Groups - Capital/Carleton</b>
		<p>Patrick Henry, NatureServe Canada (Moderator), Ken Baldwin, Canadian Forest Service, CNVC Technical Committee Chair, Don Faber-Langendoen, NatureServe, CNVC Technical Committee member - Status and Needs of the Canada National Vegetation Classification;</p> <p>Ephraim Zimmerman, Pennsylvania Natural Heritage Program - Revising Pennsylvania's Natural Plant Community Classification;</p> <p>Kevin Hop, U.S. Geological Survey - Lessons learned: synchronizing map layers to a single USNVC version;</p> <p>Jimmy Kagan, Institute for Natural Resources, Portland - Creating range maps for all vertebrates, trees,</p>	<p>Leah de Forest, Parks Canada - Parks Canada Site-based Analysis of Species at Risk; prioritization of species and activities for multi-species action plans;</p> <p>Andrew Couturier, Bird Studies Canada - Incorporating biodiversity data into assessments for IBAs and KBAs;</p> <p>Ryan Fisher, Environment Saskatchewan -Using NatureServe Vista to inform landscape-scale planning in southwestern Saskatchewan;</p> <p>Christopher Tracey, Pennsylvania Natural Heritage Program (Moderator and Speaker) - Prioritizing Habitats for Conservation Action in the Northeastern US;</p>	<p>Eric Lofroth, British Columbia Conservation Data Centre and Bryce Maxell (moderators) - Client Identification and Service</p>	<p>Karen Cieminski, Minnesota Department of Natural Resources (Moderator and Speaker) - Backlog Working Group Update and Discussion</p>

		shrubs and at-risk species in North America			
	Noon - 1:30 PM	Lunch - Create Your Own Lunch Group			
	1:30 - 3:00 PM	<b>Citizen Science - Cartier I</b>	<b>Developing and Implementing Good Plans: Planning for Biodiversity - Cartier II</b>	<b>Strengthening the Network: Network Collaboration - Cartier III</b>	<b>Working Groups - Capital/Carleton</b>
		<p>Lindsey Wise, Portland State University and Bryce Maxell, Montana Natural Heritage - Practical Uses of iNaturalist, eBird, and Other Online Observations;</p> <p>Peter Soroye, U. of Ottawa - How good is citizen science at contributing novel species information?</p> <p>James Pagé, Canadian Wildlife Federation, Bioblitz Canada: documenting biodiversity from sea to sea to sea;</p> <p>All - Presenter Panel Discussion</p>	<p>Julie Lundgren, New York Natural Heritage (Moderator)</p> <p>Michael Bradstreet, Nature Conservancy of Canada – NCC’s Conservation Assessment for Southern Canada;</p> <p>Robert Zaino, Vermont Department of Fish and Wildlife - Heritage Data in State Lands Management Planning;</p> <p>Julie Lundgren, New York Natural Heritage - Meeting in the Middle - Satisfying Recreation and Conservation Priorities in NY State Parks</p>	<p>Eric Lofroth, British Columbia Conservation Data Centre (moderator) - Regional Network Collaboration Models</p>	<p>Canada National Vegetation Classification Working Group</p>

	3:00 - 3:30 PM	Break - Victoria South			
	3:30 - 5:00 PM	<b>Citizen Science - Cartier I</b>	<b>Developing and Implementing Good Plans: Planning for Biodiversity - Cartier II</b>	<b>Strengthening the Network: MJD - Cartier III</b>	<b>Working Groups - Capital/Carleton</b>
		<p>Janel Johnson, Nevada Natural Heritage Program - Year of the Monkey: a rare "super bloom" for Carson Valley Monkeyflower;</p> <p>John Klymko, Atlantic Canada Conservation Data Centre - Maritimes Butterfly Atlas;</p> <p>Colin Jones &amp; Jim Mackenzie, Ontario Natural Heritage Information Centre - Master Naturalists-- Champions of NatureServe?</p> <p>Chris Ludwig, Virginia Division of Natural Heritage -Virginia Master Naturalist Project RareQuest: An experiment to use citizen scientists for hard-core Heritage inventory field work;</p> <p>All - Presenter Panel Discussion</p>	<p>Cary Hamel, Nature Conservancy of Canada (Moderator) and Nicole Firlotte, Manitoba Sustainable Development - A Multiple Species management framework in tall-grass prairie;</p> <p>Katie Akey, Toronto Zoo - Conservation as Tradition: Protecting Biodiversity in First Nations Communities through Cultural Preservation;</p> <p>Mario Thomas, Biodiversity Institute of Ontario - DNA Barcoding to help achieve UN targets of the Biodiversity Strategic Plan</p>	<p>Shara Howie, NatureServe; Bob Gottfried, Texas Parks and Wildlife; Brian Klatt, Michigan Natural Features Inventory; and Everett Marshall, Vermont Natural Heritage - Multijurisdictional Data: A New Frontier</p>	<p>Canada National Vegetation Classification Working Group</p>
	5:00 – 6:00 PM	Tools Café – Victoria South			

	6:00 - 8:00 PM	Reception at the Canadian Museum of Nature and <i>On Guard for Them: Global Status of Canadian Species</i> Report Release
<b>THURSDAY 13 APRIL</b>	8:30 - 9:00 AM	Coffee and Light Breakfast - Victoria South
	9:00 AM - Noon	Network Business Meeting - Victoria North
iMapInvasives Partnership: Strategic Meeting - Meg Wilkinson and DJ Evans, New York Natural Heritage; Lindsey Wise, Portland State University; and Jeff Wagner, Pennsylvania Natural Heritage - <b>Victoria North, Monday 1:30 - 5:00 PM</b> (by invitation)		
Data Manager session: Strategic Meeting – Peter Sorrill, MNRF – <b>Victoria North, Tuesday 10:30 – 12:00 PM</b>		
iMapInvasives Partnership: Technical Meeting - Lindsey Wise, Portland State University - <b>Victoria North, Tuesday 1:30 - 5:00 PM</b> (by invitation)		
Tools and Issues: Technical Meeting – Peter Sorrill, MNRF – <b>Victoria North, Wednesday 1:30 - 5:00 PM</b>		