60th Annual International Conference of the Wildlife Disease Association
Québec City, Québec, Canada 2011

Photo credits: front page: sky: Brenda Starr, snowy owl: Martin Cathrae, Chateau Frontenac: J. Greenberg (creative commons licence: Share Alike 4), beluga: The group for research and education on marine mammals®, back cover: S. Larrat (creative common license: Share Alike 4)
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<td>USDA-APHIS Wildlife Services</td>
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<td>USGS National Wildlife Health Center</td>
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<td>Canadian Assoc. of Zoo and Wildlife Veterinarians</td>
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<td>Wildlife Conservation Society</td>
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<td>Morris Animal Foundation</td>
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<td>Artemis Technologies Inc.</td>
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WDA 2011 OFFICERS AND COUNCIL
President......................................................... Lynn Creekmore
Vice-president ................................................. Dolores Gavier-Widén
Secretary ......................................................... Pauline Nol
Treasurer ......................................................... Laurie Baeten
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2011 ORGANIZING COMMITTEE

Organizing Committee

Robert Patenaude  Local host, logistic, sponsorship, hotel and social events
Stéphane Lair  Program, *Atelier sur la surveillance des maladies de la faune sauvage dans le monde francophone*, proceeding, web site, abstracts formatting
Dave Jessup  WDA Executive Manager, sponsorship
Lena Measures  Program, abstracts editing
Manon Simard  Program, conference evaluation
Guylaine Séguin  Posters
Sylvain Larrat  Proceeding
Emi Kate Saito  Student presentations / posters and awards Chair
Jane Harms  Student activities
Brett Elkin  Auction chair
Colin Gillin  AAWV Al Franzmann Memorial Lecturer Chair
Tom Yuill  Carleton Herman Fund Lecture
Kate Counter  Allen Press, Registration

Session Chairs

Marc Artois  Thijs Kuiken  Helen Schwantje
Ian K. Barker  Frederick A. Leighton  Guylaine Séguin
Graham Crawshaw  Patrick Leighton  Manon Simard
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Réhaume Courtois  Ministère des ressources naturelles et de la faune
Marie-Josée Schinck  Hôtel Château Laurier Québec
Veterinary Students  Université de Montréal and University of Prince Edward Island
CONTINUING EDUCATION

Continuing education for this conference was set up by the American Association of Wildlife Veterinarians through the American College of Zoological Medicine. CE forms can be acquired at the conference registration desk.

The Program and Abstracts booklet is distributed to all WDA Conference attendees. The Wildlife Disease Association does not regard this Conference Program and Abstracts booklet as a publication. It is used only as an information and reference guide for conference participants. Abstracts included in this program should not be cited in any scientific literature or peer-reviewed publications.

This conference is officially referred to as the Annual International Conference of the Wildlife Disease Association.
The conference logo for the 2011 meeting was created by Anthony Verge. The circle symbolizes the earth and the «One World – One Health» concept of animal health. The animal species depicted in the circle are native Québec wildlife species, well known locally and internationally.

**Beluga:** There are four populations of beluga in Quebec. The St. Lawrence Estuary beluga population, listed as threatened is reduced by overexploitation and threatened by various human activities including contaminants. This population is presently stable at an estimated 1,100 but it is unknown why, despite protection, this species at risk has failed to recover. The Ungava Bay and Eastern Hudson Bay beluga populations, listed as “endangered”, are estimated at less than 200 and at 3000, respectively. The Western Hudson Bay population, listed as “special concern”, migrates into Hudson Strait where they are hunted by Inuit in Northern Quebec (Nunavik), and this population is estimated between 53,000 to 108,000. The subsistence hunt of beluga in Nunavik is co-managed by the Nunavik Marine Region Wildlife Board and DFO with seasonal quotas by community.

**Atlantic Salmon:** With one hundred and fourteen recognized salmon rivers, Québec provides important breeding habitat for Atlantic salmon and economically valuable recreational opportunities. Industrial development and hydro-electric installations threaten this species in freshwater habitats and by-catch and oceanographic conditions threaten this species in the North Atlantic Ocean.

**Caribou:** Québec is home to two large caribou herds: the George River herd and the Leaf River Herd. In the mid-1980s the George River population was estimated at 850,000 and provided a significant source of income to local outfitters and a source of food for the Inuit, Naskapi and Cree living in their migration routes. This population has drastically declined to an estimated 74,000 in a survey conducted in October 2010. The cause of this decline is not fully understood but may be related to the carrying capacity of the habitat. The Leaf River population was estimated at 628,000 in 2001 and will be surveyed in 2011 but this population appears to have also declined.

**Greater Snow Goose:** In 1998 the Greater Snow Goose population was estimated at 800,000, a dramatic increase from an estimated 3,000 one hundred years ago. This increase was due to various conservation measures (protection of breeding and wintering grounds and migratory rest-stops, changes in feeding habits, and hunting restrictions) and favourable environment conditions. This high population exceeded the carrying capacity of its tundra breeding grounds and migratory rest-stops in Québec during the spring and fall migrations. Québec protects critical migratory rest-stops such as the Cap Tourmente National Wildlife Area (near Québec City) which is North America’s first Ramsar site. Since the 1980s and 1990s conservation and management measures allowing greater sustainable use have reduced the population to an estimated 700,000.
WDA 2011 CONFERENCE EVENTS & PROGRAM

Quebec Welcome Reception - Sunday, August 14 (7:00PM – 10:00PM)
Chapelle des Amériques (see map)
The welcome reception of conference participants will begin Sunday evening in the Chapel des Amériques (walking distance from Hôtel Laurier, see map). Local Québécois food and complimentary drink will be served with a cash bar. A special guest, "Samuel de Champlain", will introduce you to Québec and its history.

Auction – Monday, August 15 (7:00PM – 10:00PM)
The WDA auction, which will be held on August 15, is a completely optional but really, really fun way for those attending the conference to help support the organization. Both the silent and live auctions are a great way for conference attendees to help the WDA raise money for the organization. People who attend the conference can bring any items that they feel other conference attendees might want to buy and own. Items donated often have a wildlife theme and / or are items from home countries. Items can be big or small such as t-shirts, souvenirs, books, paintings, framed photos, and home-made handicrafts. Those who want to participate will donate an item(s) when registering for the conference. In addition to donations, you will be able to purchase items through the silent and live auctions. We hope that you will want to participate and join in the fun to help raise money for the WDA! And, the best part is that all the funds raised in the auction go to student activities!

Free night in the Vieux Québec (Old town) – Tuesday, August 16

The Image Mill 3D – 2011 Edition (9:30PM, see map)
You need to see this unique show! Renewed version of the famous projection now benefits from stereoscopic techniques that add depth to the visuals. The architectural projection produced and performed, in Quebec City, by Robert Lepage and Ex Machina represents the largest projection ever done. It requires the use of fine technology to project a huge quantity of images and films on the grain silos of the Quebec Harbour, an oversized screen, 600 meters wide by 30 meters high! In the hands of the creators, this huge mass of concrete is in constant transformation, which gives us the strange impression of it being alive and talking to us. Leaving the usual clichés behind, we discover the fascinating history of Quebec City with its upheavals, its controversies, and its great political and popular moments. Free admission.

Les Chemins invisibles created by Cirque du Soleil (9:00PM, see map)
As the sun sets over the horizon, in his "royaume de tôle" (tin kingdom), the Emperor beckons all to take part in an out-of-the-ordinary urban cabaret presented outdoors under the Dufferin-Montmorency highway overpass. Le Royaume de tôle, created by Cirque du Soleil®, is a striking mélange of acrobatics, street dance, music and multimedia bearing the distinct signature of Cirque du Soleil. Free admission.

Field trips – Wednesday, August 17 (Afternoon)

Trip to Grosse Île / the Irish Memorial National Historic Site of Canada
Grosse Île (Large Island), located in the middle of the St. Lawrence River, was a quarantine station from 1832 to 1937. At the time, the island was the main port of entry for immigrants coming to Canada. Irish immigrants fleeing the potato famine in Ireland were quarantined on Grosse Île, where thousands died of disease and were buried in mass graves. Grosse Île is a witness to both human tragedy and exceptional dedication by those who cared for sick immigrants. Many Irish orphans were adopted by Québécois families and Irish family names are common in Québec. Grosse Île, for a time, also served as an experimental animal disease research station. Departure from hotel at 12:00 by bus. Boarding boat at Berthier-sur-Mer at 2:00PM. Lunch will be served onboard. Guided tour of historic site by Parks Canada naturalist. Boarding boat at Grosse Île for return at 6:00PM. Supper at the restaurant “Chez Octave”. Return to Quebec City by bus after supper.
Guided tour of the Jacques-Cartier River in a Rabaska canoe

Forty five minutes by bus from Québec City, and you're in Parc national de la Jacques-Cartier. A large mountainous plateau dominates the park's landscape. It's home to some of Québec's loveliest glacial valleys, including a spectacular one that the Jacques-Cartier wends its way through. Discover the Jacques Cartier River, a river with thousands of hidden secrets. Discover this dynamic ecosystem where salmon, trout, moose and numerous bird species abound. Departure from hotel at 12:15. Return hotel: 5:00PM.

Visit of the Aquarium du Québec

You will meet the 10,000 marine animals that inhabit the Aquarium: fish, reptiles, amphibians, invertebrates, and marine mammals. Among them, polar bears, walruses, and seals will provide you with unique moments. Fare includes transportation, daily lunch menu at the aquarium restaurant « La Grande Ourse», behind the scenes guided tour of the facility.
Departure from the hotel at 12:30. Return hotel: 5:00PM.

Walking tour Vieux Québec (Old town)

Your guide will meet you in the lobby of the hotel and you will begin the tour on Grande-Allée, pass the Parliament building, St. Louis Gate and walk along the Chemin St. Louis to the spectacular Château Frontenac. The tour will continue with the Dufferin Terrace, a magnificent boardwalk overlooking the St. Lawrence River. The next stop is the Seminary of Quebec, founded in 1663. Now occupied by the Architecture School of Laval University, this institution is a remarkable collection of buildings erected around enclosed courtyards. The tour will then continue to the magnificent interior of Notre-Dame-de-Québec Basilica. In the lower town, visitors will discover Place Royale, where the Government of Québec has restored merchants’ houses from the time of New France. Guides will depart from the hotel lobby with groups of 15 -25 people at 1:30PM. Return on your own from Place Royale.

Banquet – Thursday, August 18 (7:00PM – 10:00PM)

Highlight of the evening will be a presentation of Inuit throat singing by Taqralik Partridge and her colleague, residents of Kuujjuac a large Inuit community on the shores of the Koksoak River on Ungava Bay in Northern Québec (=Nunavik).
### Sunday August 14, 2011

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<td><strong>Conference registration, Auction drop-off</strong></td>
<td>1:00PM – 7:00PM</td>
<td>Salle du Manège</td>
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<tr>
<td><strong>Editorial Board meeting</strong></td>
<td>8:30 – 12:00</td>
<td>Grande Allée A</td>
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<td>Lunch – Grande Allée B (12:00 – 1:00PM)</td>
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<tr>
<td><strong>Atelier : Surveillance des maladies de la faune sauvage dans le monde francophone</strong></td>
<td>8:15 – 5:00PM</td>
<td>Salle Abraham-Martin</td>
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<td>Lunch – Salle de la Colline (12:25 – 1:25PM)</td>
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<td><strong>WDA Council Meeting</strong></td>
<td>1:00PM – 5:00PM</td>
<td>Grande Allée A</td>
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<tr>
<td><strong>Workshop-The Wildlife Society: A primer</strong></td>
<td>2:30PM – 4:00PM</td>
<td>Salle de la Colline</td>
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<td><strong>Student Career Workshop</strong></td>
<td>2:00PM – 4:00PM</td>
<td>Salle du Jardin</td>
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<tr>
<td><strong>Quebec Welcome and Reception</strong></td>
<td>7:00PM – 10:00PM</td>
<td>Chapelle des Amériques</td>
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Monday August 15, 2011

Conference registration, Commercial exhibits, Auction drop-off
Time: 7:00 – 4:30PM
Room: Foyer des Plaines

7:00 – 8:30 Continental Breakfast
Room: Foyer des Plaines

Conference Welcome
Time: 8:00 – 8:30
Room: Salle des Plaines
Welcome allocution by Ms. Nathalie Camden, Sous-ministre associée à Faune Québec, Ministère des Ressources naturelles et de la Faune

Wildlife Resources in a Changing World Symposium
Session Chair: Ian K. Barker
Room: Salle des Plaines

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<th>Time</th>
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| 8:30  | 1. WILDLIFE AND PUBLIC HEALTH IN THE ARCTIC  
      | Eric Dewailly                                                              |
| 9:00  | 2. THE NUNAVIK TRICHINELLOSIS PREVENTION PROGRAM: COMBINING SCIENCE WITH TRADITIONAL INUIT PRACTICES  
      | Manon Simard                                                              |
| 9:30  | 3. THE CANADIAN SEAL HUNT  
      | Lena Measures                                                             |
| 10:00 | Quebec Moment  
      | Room: Salle des Plaines                                                  |
| 10:10 | BREAK  
      | Room: Foyer des Plaines                                                  |
| 10:40 | 4. NON-CONSUMPTIVE USE OF WILDLIFE IN A MARINE PROTECTED AREA CONTEXT  
      | Nadia Ménard                                                              |
| 11:10 | 5. POLAR BEARS IN A CHANGING ARCTIC  
      | Andrew E. Derocher                                                        |
      | WDA 60th Anniversary Invited Speaker                                      |
| 11:55 | Question period for invited speakers                                      |
12:25 – 1:40PM  LUNCH
  Room: Jardin des Quatre Saisons (1st floor)

**Al Franzmann Memorial Lecturer**
Session Chair: Colin Gillin
Room: Salle des Plaines

1:40PM  6. WILDLIFE DISEASE: A PUBLIC HEALTH PRIORITY IN A CHANGING WORLD
  *Nick H. Ogden*

**Carleton Herman Lecturer**
Session Chair: Tom Yuill
Room: Salle des Plaines

2:25PM  7. INTERACTIONS BETWEEN PARASITES AND IMPLICATIONS FOR HOST-PARASITE DYNAMICS
  *Sandra Telfer*

3:10PM – 3:20PM  Quebec Moment
  Room: Salle des Plaines

3:20PM – 3:50PM  BREAK
  Room: Foyer des Plaines

**Effect of Diseases on Wildlife Resources**
Session Chair: Frederick A. Leighton
Room: Salle des Plaines

3:50PM  8. EPIDEMIOLOGY AND DISTRIBUTION OF BOVINE TB IN ELK AND WHITE-TAILED DEER IN THE RIDING MOUNTAIN NATIONAL PARK REGION
  *Todd K. Shury*

4:05PM  9. ANTHRAX IN WOOD BISON: WHAT WE KNOW, WHAT WE DON'T KNOW, AND IMPLICATIONS FOR MANAGEMENT OF A THREATENED SPECIES
  *Brett Elkin*

4:20PM  10. CONTINUED POPULATION DECLINE OF BRITISH GREENFINCHES DUE TO TRICHOMONOSIS
  *Becki Lawson*

4:35PM  11. DETERMINING CAUSES OF MORTALITY IN A DECLINING MOOSE POPULATION IN NORTHEAST MINNESOTA
  *Erika A. Butler*

4:50PM – 5:00PM  WDA 2012 – Lyon France
  *Marc Artois*
  Room: Salle des Plaines

3:00PM – 4:00PM  LUNCH
  Room: Jardin des Quatre Saisons (1st floor)
5:00PM – 7:00PM  Supper on own

**WDA Auction**
Time: 7:00PM – 10:00PM
Room: Salle des Plaines

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**Tuesday August 16, 2011**

**Conference registration, Commercial exhibits**
Time: 7:00PM – 5:00PM
Room: Foyer des Plaines

7:00 – 8:30  Continental Breakfast
Room: Foyer des Plaines

7:15 – 8:15  Prayer Breakfast
Room: Salle Abraham-Martin

**2011 WDA Graduate Research Recognition Award**
Session Chair: Emi Saito
Room: Salle des Plaines

8:15  12. THE POWER OF GOOD GENES: RAPID HOST EVOLUTION DRIVEN BY AN EMERGING PRION DISEASE
Stacie J. Robinson

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**Terry Amundsen Student Oral Competition**
Session Chair: Emi Saito
Room: Salle des Plaines

8:45  13. PREVALENCE AND INTENSITY OF *HEPATOZOOON* SP INFECTION IN GREEN FROGS (*LITHOBATES (RANA) CLAMITANS*) OF PRINCE EDWARD ISLAND, CANADA
Jessica Mitchell

9:00  14. PATHOLOGY OF AVIAN KERATIN DISORDER: INVESTIGATION OF AN EMERGING DISEASE IN WILD BIRDS
Caroline Van Hemert

9:15  15. THE TRICH TO SAFE BIRDFEEDING: *TRICHOMONAS GALLINAE* IN CANADIAN MARITIME WILD BIRD POPULATIONS
Whitney Kelly-Clark
16. MULTIPLE PLASMODIUM SPECIES ASSOCIATED TO AVIAN MALARIA OUTBREAK IN MAGELLANIC PENGUINS (SPHENISCUS MAGELLANICUS) IN A REHABILITATION CENTER, SOUTHERN BRAZIL
  Ralph Eric Thijl Vanstreels

17. ECOLOGY OF LOW PATHOGENIC AVIAN INFLUENZA VIRUSES IN A LONG DISTANCE MIGRATORY BIRD, THE BLUE-WINGED TEAL (ANAS DISCORS): FROM INDIVIDUALS TO POPULATIONS
  Rodolfo Nallar

10:00 – 10:10 Quebec Moment
  Room: Salle des Plaines

10:10 – 10:30 BREAK
  Room: Foyer des Plaines

18. SEROTYPING OF PASTEURELLA MULTOCIDA ISOLATES FROM COMMON EIDERS (SOMATERIA MOLLISIMA) IN EASTERN CANADA
  Guylaine Séguin

19. AVIAN CHOLERA IN THE EASTERN CANADIAN ARCTIC: WHAT DO WE KNOW ABOUT RESERVOIRS?
  N. Jane Harms

20. EVALUATION OF IgG RESPONSE TO OTODECTES SPP. IN SANTA CATALINA ISLAND FOXES DURING AN ACARICIDE TREATMENT STUDY
  Megan Moriarty

21. SUSCEPTIBILITY OF WHITE-TAILED DEER AND CULICOIDES SONORENSIS TO AN EXOTIC EPIZOOTIC HEMORRHAGIC DISEASE VIRUS, EHDV-7 (ISRAEL)
  Mark G. Ruder

22. ANAPLASMA PHAGOCYTOPHILUM IN MOOSE (ALCES ALCES) IN SWEDEN, AND POSSIBLE EFFECTS ON CALF HEALTH
  Jonas Malmsten

23. DISEASE TRANSMISSION IN EXTREME ENVIRONMENTS: NEMATODE PARASITES INFECT REINDEER DURING THE ARCTIC WINTER
  Anja Carlsson

12:00 – 1:00PM LUNCH
  Room: Jardin des Quatre Saisons (1st floor)

1:00PM
  USE OF ENVIRONMENTAL SITES BY MULE DEER AS A MEASURE OF RISK OF CWD TRANSMISSION IN SOUTHERN SASKATCHEWAN
  Maria Fernanda Mejia Salazar

1:15PM
  PRELIMINARY FINDINGS ON REPRODUCTIVE INDICES AND FAWN SURVIVAL OF MULE DEER (ODOCOILEUS HEMIONUS) IN SOUTHERN SASKATCHEWAN
  Asha Perera
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<td>1:30PM</td>
<td>26. IDENTIFICATION OF THE FIRST INTERMEDIATE HOST OF ALARIA ALATA</td>
<td>Julien Portier</td>
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<td>1:45PM</td>
<td>27. GENETIC STRUCTURE OF WHITE-TAILED DEER IN GEORGIA: A COMPARISON</td>
<td>Sabrina N. McGraw</td>
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<td>OF RESTOCKING HISTORY, CURRENT GENETICS, AND SUSCEPTIBILITY TO</td>
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<td>EPIZOOTIC HEMORRHAGIC DISEASE</td>
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<td>2:00PM</td>
<td>28. PATHOGENIC VIRUSES AND THEIR POTENTIAL ROLE IN THE DECLINE AND</td>
<td>Steven van Beurden</td>
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<td>RESTORATION OF WILD EUROPEAN EEL STOCKS</td>
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<td>2:15PM</td>
<td>29. ASSOCIATION BETWEEN THE INTENSITY OF ANISAKIS SIMPLEX LARVAE</td>
<td>Sylvain Larrat</td>
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<td>INFECTION AND RED VENT SYNDROME IN WILD ATLANTIC SALMON IN THE</td>
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<td>PROVINCE OF QUEBEC</td>
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<td>2:30PM – 2:40PM</td>
<td>Quebec Moment</td>
<td>Room: Salle des Plaines</td>
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**BREAK - STUDENT POSTER SESSION**

**Time:** 2:40PM – 3:55PM  
**Room:** Salle Abraham-Martin

**Terry Amundsen Student Oral Competition (cont.)**

**Session Chair:** Emi Saito  
**Room:** Salle des Plaines

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<td>3:55PM</td>
<td>30. TRACKING PATHOGEN TRANSMISSION AT THE HUMAN-WILDLIFE INTERFACE:</td>
<td>Risa Pesapane</td>
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<td>BANDED MONGOOSE (MUNGOS MUNGO) AND ESCHERICHIA COLI AS A MODEL</td>
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<td>SYSTEM IN CHOBE, BOTSWANA</td>
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<td>4:10PM</td>
<td>31. ASSOCIATIONS BETWEEN IXODES SCAPULARIS TICKS AND SMALL MAMMAL</td>
<td>Catherine Bouchard</td>
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<td>HOSTS IN A NEWLY-ENDEMIC ZONE IN SOUTHEASTERN CANADA: IMPLICATIONS</td>
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<td>FOR BORRELIA BURGDORFERI TRANSMISSION</td>
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<td>4:25PM</td>
<td>32. FACTORS AFFECTING THE ABUNDANCE OF BLACKLEGGED TICKS (IXODES</td>
<td>Lisa Werden</td>
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<td>SCAPULARIS) AND THE PREVALENCE OF BORRELIA BURGDORFERI INFECTION IN</td>
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<td>THE THOUSAND ISLANDS REGION OF ONTARIO</td>
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<td>4:40PM</td>
<td>33. THE EPIDEMIOLOGY OF SALMONELLA IN NEW ZEALAND ISLAND FAUNA</td>
<td>Danielle Middleton</td>
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4:55PM  34. A RETROSPECTIVE ANALYSIS OF KILLER WHALE STRANDINGS IN THE NORTH PACIFIC OCEAN AND THE BENEFITS OF A COORDINATED STRANDING RESPONSE PROTOCOL  
   Michelle Barbieri

5:10PM  35. GIARDIA IN SYMPATRIC WILDLIFE IN VOLCANOES NATIONAL PARK, RWANDA  
   Jennifer Hoga

AAWV business meeting
Time:  5:30PM – 6:30PM
Room:  Salle Abraham-Martin

CAZWV business meeting
Time:  5:30PM – 6:30PM
Room:  Salle De La Colline

Student - Mentor evening
Time:  6:30PM – 8:00PM
Room:  Salle Le Jardin

Wednesday August 17, 2011

Registration, Commercial exhibits
Time:  7:00 – 5:00PM
Room:  Foyer des Plaines

7:00 – 8:30  Continental Breakfast
            Room:  Foyer des Plaines

Zoonoses (concurrent sessions)
Session Chair:  Jonathan Sleeman
Room:  Salle des Plaines A

8:15  36. PREDICT: SURVEILLANCE FOR EMERGING INFECTIOUS ZOONOTIC DISEASES OF WILDLIFE ORIGIN  
      Damien Joly

8:30  37. BARTONELLA IN KENYAN CARNIVORES: AN EMERGING PATHOGEN OF CONSERVATION AND PUBLIC HEALTH CONCERN  
      Krista L. Jones

XVII
8:45    38. PREDICTING TICK INVASION: SPREAD OF THE LYME DISEASE VECTOR IXODES SCAPULARIS IN CANADA
        Patrick Leighton

9:00    39. GASTROINTESTINAL PARASITES IN NON-HUMAN PRIMATES (NHPS) WITH CLOSE CONTACT TO HUMANS IN THE PERUVIAN AMAZON
        Marieke H. Rosenbaum

9:15    40. B-VIRUS SHEDDING RATES DETERMINED BY PCR IN CULLED FREE-RANGING LONG-TAILED MACAQUES (MACACA FASCICULARIS) IN MALAYSIA
        Melinda Rostal

9:30    41. PREVALENCE OF ZOONOTIC ENTERIC PATHOGENS IN WILDLIFE, LIVESTOCK, AND SOIL ON BEEF, DAIRY, AND SWINE FARMS IN ONTARIO
        Claire Jardine

Surveys and New Reports (concurrent sessions)
Session Chair:  Dolores Gavier-Widén
Room:            Salle des Plaines B-C

8:15    42. HOW MANY PARASITES ARE THERE IN A HEALTHY ECOSYSTEM?
        Andy Dobson

8:30    43. RETROSPECTIVE SEROSURVEY FOR NEOSPORA CANINUM IN A HERD OF PERE DAVID’S DEER (ELAPHURUS DAVIDIANUS)
        Priya Bapodra

8:45    44. WIND FARMS, BIRDS, AND BATS: HOW MUCH MORTALITY IS ACCEPTABLE?
        Renee Carleton

9:00    45. AN INCREASE IN ROE DEER TRAFFIC VICTIMS IN UTRECHT: IS DISEASE A CONTRIBUTING FACTOR?
        Jolianne Rijks

9:15    46. PARANASAL SINUS TUMORS OF ROCKY MOUNTAIN BIGHORN SHEEP
        Karen Fox

9:30    47. SURVEY OF LEISHMANIA SP. IN FREE RANGING NEOTROPICAL PRIMATES OF ATLANTIC AND AMAZON RAIN FOREST, BRAZIL
        Marina Galvão Bueno

9:45 – 10:15   BREAK
        Room: Foyer des Plaines
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<tr>
<th>Session Chair: Tracey Goldstein</th>
<th>Room: Salle des Plaines A</th>
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<tbody>
<tr>
<td><strong>10:15</strong></td>
<td><strong>48. COMPARING POST-RELEASE MOVEMENT OF REHABILITATED HARBOR SEAL PUPS TO AGE-MATCHED WILD SEALS</strong>&lt;br&gt;Joseph K. Gaydos</td>
</tr>
<tr>
<td><strong>10:30</strong></td>
<td><strong>49. CAUSES OF DEATH OF STRANDED HARBOUR SEALS (<em>PHOCA VITULINA</em>) AND GREY SEALS (<em>HALICHOERUS GRYPUS</em>) IN THE NETHERLANDS DURING A THIRTY-YEAR PERIOD, 1975-2008</strong>&lt;br&gt;Thijs Kuiken</td>
</tr>
<tr>
<td><strong>10:45</strong></td>
<td><strong>50. IDENTIFICATION OF MYCOPLASMAS IN AUSTRALIAN FUR SEALS AND POSSIBLE ASSOCIATION WITH GESTATIONAL FAILURE</strong>&lt;br&gt;Michael Lynch</td>
</tr>
<tr>
<td><strong>11:00</strong></td>
<td><strong>51. POSITIVE RESULTS IN BRUCELLOSIS SEROLOGICAL TESTS: WHAT IS YOUR DIAGNOSIS?</strong>&lt;br&gt;Jacques Godfroid</td>
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<tr>
<th>Session Chair: Catherine Soos</th>
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<tr>
<td><strong>10:15</strong></td>
<td><strong>52. EXPERIMENTAL INFECTION OF BAR-HEADED GEESE (<em>ANSER INDICUS</em>) AND RUDDY SHELDUCKS (<em>TADORNA FERRUGINEA</em>) WITH A CLADE 2.3.2 H5N1 HIGHLY PATHOGENIC AVIAN INFLUENZA VIRUS</strong>&lt;br&gt;Nicole Nemeth</td>
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<tr>
<td><strong>10:30</strong></td>
<td><strong>53. PREDICTING TRANSMISSION RATE OF AVIAN INFLUENZA VIRUS IN WILD WATERFOWL</strong>&lt;br&gt;Viviane Hénaux</td>
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<tr>
<td><strong>10:45</strong></td>
<td><strong>54. EFFECTS OF A NATURAL INFECTION WITH AN AVIAN INFLUENZA VIRUS (H13N2) ON MIGRATING LESSER BLACK-BACKED GULLS</strong>&lt;br&gt;Inge Müller</td>
</tr>
<tr>
<td><strong>11:00</strong></td>
<td><strong>55. ESTIMATION OF A DYNAMIC INDICATOR OF INDIRECT CONTACT BETWEEN WILD BIRDS AND POULTRY BASED ON REMOTE SENSING AND SATELLITE TELEMETRY</strong>&lt;br&gt;Julien Cappelle</td>
</tr>
</tbody>
</table>

**Field Trips**

| Time: 12:00 |
## Thursday August 18, 2011

### Registration, Commercial exhibits
- **Time:** 7:00 – 5:00PM
- **Room:** Foyer des Plaines

### Canadian Wildlife (concurrent sessions)
- **Session Chair:** Helen Schwantje
- **Room:** Salle des Plaines A

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<thead>
<tr>
<th>Time</th>
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<tr>
<td>8:15</td>
<td>56. LAST HOPE FOR THE GREATER SAGE GROUSE (CENTROCERUS UROPHASIANUS) IN CANADA? LAUNCH OF A TRANSBOUNDARY, INTERDISCIPLINARY RECOVERY PROGRAM</td>
<td>Judit Smits</td>
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<tr>
<td>8:30</td>
<td>57. FIRST REPORT OF ECHINOCOCCUS MULTILOCULARIS IN URBAN AND RURAL COYOTES (CANIS LATRANS) FROM ALBERTA, CANADA</td>
<td>Stefano Catalano</td>
</tr>
<tr>
<td>8:45</td>
<td>58. SERIAL OVARIAN ULTRASONOGRAPHY IN WILD-CAUGHT WOOD BISON (BISON BISON ATHABASCAE)</td>
<td>Murray Woodbury</td>
</tr>
<tr>
<td>9:00</td>
<td>59. ECHINOCOCCUS GRANULOSUS (CYSTIC HYDATID DISEASE) IN CERVIDS IN CANADA</td>
<td>Emily Jenkins</td>
</tr>
<tr>
<td>9:15</td>
<td>60. FAILURE TO DETECT RANAVIRUS IN TOE CLIPS AND BLOOD OF WILD GREEN FROGS, LITHOBATES (RANA) CLAMITANS, THROUGH PCR TESTING</td>
<td>María Forzán</td>
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### Ecology of Disease in Mammals (concurrent sessions)
- **Session Chair:** Mark Drew
- **Room:** Salle des Plaines B-C

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<tr>
<td>8:15</td>
<td>61. SUSCEPTIBILITY OF COLOSTRUM-DEPRIVED LAMBS AND LAMBS RECEIVING COLOSTRUM TO THE CERVID ADENOVIRUS THAT CAUSES HEMORRHAGIC DISEASE IN DEER</td>
<td>Leslie W. Woods</td>
</tr>
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</table>
62. **CRYPTOSPORIDIUM PARVUM AND GIARDIA LAMBLIA IN SMALL AND MEDIUM SIZE MAMMALS IN FRAGMENTED LANDSCAPES ALONG THE CUITZMALA RIVER IN THE STATE OF JALISCO, MEXICO**  
*Omar García-Suárez*

8:45  
63. **BODY CONDITION, IMMUNOCOMPETENCE AND PARASITES IN CONTRASTED POPULATION OF ROE DEER: A FIRST SIGHT INTO THE VICIOUS CIRCLE**  
*Emmanuelle Gilot-Fromont*

9:00  
64. **SEASONAL FLUCTUATIONS IN RUMINANT BODY CONDITION: EFFECTS OF RAINFALL, PARASITES AND SEX**  
*Wendy C Turner*

9:15  
65. **THE CURRENT STATUS AND THE PREVENTION OF RABIES IN KOREAN RACCOON DOGS (NYCTEREUTES PROCYONOIDES KOREENSIS)**  
*Sun-A Kim*

9:30 – 10:00  
**BREAK**  
Room: Foyer des Plaines

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<tr>
<td>10:00</td>
<td><strong>THE CHRYSSPORIUM ANAMORPH OF NANNIZZIOPSIS VRIESII IN FREE RANGING REPTILES</strong></td>
<td>Jean A. Paré</td>
</tr>
<tr>
<td>10:15</td>
<td><strong>OCCURRENCE OF THE PATHOGENIC FUNGUS, BATRACHOCYTRIUM DENDROBATIDIS, AMONG AMPHIBIANS OF THE SIERRA GORDA BIOSPHERE RESERVE, QUERÉTARO, MEXICO</strong></td>
<td>Richard Botzler</td>
</tr>
<tr>
<td>10:30</td>
<td><strong>ASSESSMENT OF REPTILE AND MAMMAL DISEASE PREVALENCE ON CHRISTMAS ISLAND</strong></td>
<td>Karrie Rose</td>
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<tr>
<td>10:45</td>
<td><strong>HEALTH ASSESSMENTS OF RADIATED TORTOISES (ASTROCHELYS RADIATA) IN MADAGASCAR</strong></td>
<td>Bonnie L. Raphael</td>
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**Health of Herpetofauna** (concurrent sessions)  
Session Chair: Graham Crawshaw  
Room: Salle des Plaines B-C

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<tr>
<td>10:00</td>
<td><strong>VARIATION OF WEST NILE VIRUS EXPOSURE IN AVIAN SPECIES WITH LAND USE</strong></td>
<td>Natalie Randall</td>
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**Host - Pathogen Interaction** (concurrent sessions)  
Session Chair: Marcela Uhart  
Room: Salle des Plaines A
## 60th Annual International Conference of the Wildlife Disease Association
Québec City, Québec, Canada 2011

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| 10:15    | 71. IRULENCE EVOLUTION AND HOST SUSCEPTIBILITY OF *MYCOPLASMA GALLISEPTICUM* CONJUNCTIVITIS IN HOUSE FINCHES  
           *David H. Ley*                                                                 |
| 10:30    | 72. THE ROLE OF RACCOONS IN THE EVOLUTION OF CANINE AND FELINE PARVOVIRUSES  
           *Justin Brown*                                                                         |
| 10:45    | 73. PARASITE COMMUNITY STRUCTURE, SOCIAL ORGANIZATION AND HETEROZYGOSITY IN ALPINE MARMOTS  
           *Marie-Pierre Callait-Cardinal*                                                        |

### WDA business meeting

**Time:** 11:05 – 12:05  
**Room:** Salle des Plaines

12:05 – 1:05PM  
**LUNCH**  
Room: Jardin des Quatre Saisons (1st floor)

### Chronic Wasting Disease (concurrent sessions)

**Session Chair:** Patrick Leighton  
**Room:** Salle des Plaines A

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</table>
| 1:05PM   | 74. USE OF OTHER INFECTIOUS AGENTS IN DEER TO UNDERSTAND CWD EPIDEMIOLOGY  
           *Trent Bollinger*                                                                  |
| 1:20PM   | 75. MODELING TRANSMISSION DYNAMICS OF CHRONIC WASTING DISEASE IN WISCONSIN WHITE-TAILED DEER  
           *Christopher Jennelle*                                                            |
| 1:35PM   | 76. EFFECTS OF CHRONIC WASTING DISEASE ON REPRODUCTION AND RECRUITMENT IN WISCONSIN WHITE-TAILED DEER  
           *Julie Blanchong*                                                                  |
| 1:50PM   | 77. SPREAD OF CHRONIC WASTING DISEASE: DID MULE DEER DRAW THE SHORT STRAW?  
           *Margo Pybus*                                                                     |
| 2:05PM   | 78. SUMMARY OF NATIONAL CHRONIC WASTING DISEASE (CWD) SURVEILLANCE IN WILD CERVID POPULATIONS IN THE USA BETWEEN 2003 - 2010 AND ITS APPLICATION TO FEDERAL/STATE REGULATORY POLICIES FOR PREVENTION AND CONTROL OF CWD  
           *Patrice Klein*                                                                  |
Arctic and Subarctic Wildlife Diseases (concurrent sessions)
Session Chair: Manon Simard
Room: Salle des Plaines B-C

1:05PM  79. EXPERIMENTAL PARAPOXVIRUS INFECTION IN SEMI-DOMESTICATED REINDEER (RANGIFER TARANDUS TARANDUS)
         Morten Tryland

1:20PM  80. IRUS INFECTIONS IN REINDEER: A REVIEWED ASSESSMENT
         Carlos G. Das Neves

1:35PM  81. ECHINOCCUS CANADENSIS IN FINNISH WOLVES – HOST POPULATION CHANGES, PARASITE DISTRIBUTION NOT
         Marja Isomursu

1:50PM  82. SURVEILLANCE, FIRST DETECTION AND EARLY MANAGEMENT OF ECHINOCCUS MULTILIGULARIS IN SWEDEN
         Erik Ågren

2:05PM  83. MANAGEMENT OF TRICHOJECTES CANIS INFESTATION OF WOLVES IN INTERIOR ALASKA
         Kimberlee Beckmen

BREAK – GENERAL POSTER SESSION
Time: 2:20PM – 3:50PM
Room: Salle Abraham-Martin

New Methodology and Tools (concurrent sessions)
Session Chair: Thijs Kuiken
Room: Salle des Plaines B-C

3:50PM  84. MONITORING WILDLIFE DISEASES: SYNDROMIC SURVEILLANCE FOR THE DETECTION OF UNUSUAL EVENTS
         Marc Artois

4:05PM  85. DO COYOTES (CANIS LATRANS) REALLY MAKE GOOD SENTINELS FOR THE DETECTION OF PLAGUE (YERSINIA PESTIS)?
         Laurie A Baeten

4:20PM  86. MANAGEMENT OF BOVINE TUBERCULOSIS IN FREE-RANGING MICHIGAN WHITE-TAILED DEER: PREDICTIONS FROM A NEW SPATIALLY-EXPLICIT MODEL
         Dan O'Brien

4:35PM  87. NOVEL APPLICATION OF WIRELESS SENSOR NETWORKS TO MONITOR WILDLIFE INTERACTIONS WITH THEIR ENVIRONMENT
         Lauren Charles-Smith
**White Nose Syndrome and other Diseases of Bats** (concurrent sessions)

**Session Chair:** Margo Pybus  
**Room:** Salle des Plaines A

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<tr>
<td>3:50PM</td>
<td><strong>90. STALKING A KILLER: WHITE-NOSE SYNDROME IN NORTH AMERICAN CAVE BATS</strong></td>
<td>Anne Ballmann</td>
</tr>
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<td>4:05PM</td>
<td><strong>91. LONG-WAVE ULTRAVIOLET LIGHT AS A SCREENING TECHNIQUE FOR WHITE-NOSE SYNDROME IN HIBERNATING BATS</strong></td>
<td>Carol Meteyer</td>
</tr>
<tr>
<td>4:20PM</td>
<td><strong>92. FEATURES OF GEOMYCES DESTRUCTANS INFECTIONS REVEALED BY ELECTRON MICROSCOPY THAT MAY BE ASSOCIATED WITH VIRULENCE OF THE FUNGUS FOR BATS AND THE DEVELOPMENT OF WHITE-NOSE SYNDROME</strong></td>
<td>Kevin Keel</td>
</tr>
<tr>
<td>4:35PM</td>
<td><strong>93. TERBINAFINE DOSAGE AND SAFETY IN WNS INFECTED MYOTIS LUCIFUGUS: CORRELATION OF SURVIVAL, DRUG TISSUE LEVELS, AND TOXIC EFFECTS</strong></td>
<td>Alison Robbins</td>
</tr>
<tr>
<td>4:50PM</td>
<td><strong>94. PARASITES AND PATHOGENS OF BATS (MICROCHIROPTERA) ON ST. KITTS, WEST INDIES</strong></td>
<td>Amanda Loftis</td>
</tr>
<tr>
<td>5:05PM</td>
<td><strong>95. RABIES IN FOUR VAMPIRE BAT POPULATIONS (DESMODUS ROTUNDUS) IN CENTRAL MEXICO</strong></td>
<td>Adriana Fernández-González</td>
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**BANQUET**

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<td>Salle des Plaines</td>
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</table>
Registration, Commercial exhibits

Time: 8:00 – 12:00
Room: Foyer des Plaines

7:00 – 8:30 Continental Breakfast
Room: Foyer des Plaines

Health and Conservation of Great Apes

Session Chair: Jonna Mazet
Room: Salle des Plaines

8:30 96. THE MOUNTAIN GORILLA VETERINARY PROJECT: 25 YEARS OF MEDICINE, RESEARCH, AND CONSERVATION
  Michael Cranfield

8:45 97. SEROLOGIC SURVEYS FOR VIRUS EXPOSURE IN WILD AND CONFISCATED MOUNTAIN AND GRAUER’S GORILLAS IN EAST CENTRAL AFRICA
  Kirsten Gilardi

9:00 98. GASTRO-INTESTINAL HELMINTHS IN THREE SYMPATRIC SPECIES, SHARING THE BOUNDARY OF THE VOLCANOES NATIONAL PARK, RWANDA
  James Hassell

9:15 99. REMOTE MONITORING AS A TOOL FOR TRANSMISSION STUDIES OF EBOVIRUS AND OTHER EMERGING INFECTIOUS DISEASES
  Patricia Reed

9:30 100. INVESTIGATING THE ROLE OF WILD PIGS IN EBOVIRUS ECOLOGY IN CENTRAL AFRICA
  Kenneth Cameron

9:45 101. GORILLA DENSITY AND EBOLA FECAL ANTIBODY PREVALENCE - STEP 1. OPTIMIZING EMERGING INFECTIOUS DISEASE SPATIAL SURVEILLANCE
  Sarah H Olson

10:00 – 10:10 Quebec Moment
Room: Salle des Plaines

10:10 – 10:40 BREAK
Room: Foyer des Plaines
### Management of Disease and Socio-political Challenges

**Session Chair:** Marc Artois  
**Room:** Salle des Plaines

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<tr>
<td>10:40</td>
<td>Identification of Risk Factors Associated with Bovine Tuberculosis in Feral Swine Populations: Implications for Mitigation of Risk in North America</td>
<td>Ryan S. Miller</td>
</tr>
<tr>
<td>10:55</td>
<td>Antibiotic Resistant Bacterial Strains in Traded Wildlife in Peru</td>
<td>Patricia Mendoza</td>
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<tr>
<td>11:00</td>
<td>A Multivariate Assessment of Oral Vaccination Campaigns with ONRAB® Baits for the Control of Rabies in Raccoons and Striped Skunks in Southern Québec, Canada</td>
<td>Julien Mainguy</td>
</tr>
<tr>
<td>11:25</td>
<td>Climate Change, Catastrophes and Dogs in Developing Countries: A Recipe for Wildlife Disasters?</td>
<td>Elena Garde</td>
</tr>
<tr>
<td>11:40</td>
<td>Is Banning of Pesticide Effective in Reducing the Number of Pesticide Poisoning Incidents in Wildlife?</td>
<td>Philippe Berny</td>
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Emi Saito

General Poster Session ([P1] to [P68]) ................................................................. 130 – 197
Guylaine Séguin
### PRESENTATION SCHEDULE FOR POSTERS

**Student Poster Session**  
**Tuesday August 16, 2011 – 2:40PM – 3:55PM**

| [SP1] | OOCYTE COLLECTION FROM SUPERSTIMULATED DISEASED-FREE WOOD BISON (*BISON BISON ATHABASCAE*) DURING THE ANOVULATORY SEASON  
Jesus M. Palomino |
|---|---|
| [SP2] | POTENTIAL FACTOR INTERFERING IN THE ABILITY OF THE SPERM TO SURVIVE CRYOPRESERVATION  
Gillian Gratton |
| [SP3] | HELMINTH INFECTIONS ACROSS THE ANNUAL BREEDING CYCLE OF NORTHERN BOBWHITES IN THE ROLLING PLAINS OF TEXAS  
Stacie M. Villarreal |
| [SP4] | THE PARASITIC EYEWORM *OXYSPIRURA PETROWI* IN NORTHERN BOBWHITES FROM TEXAS  
Stacie M. Villarreal |
| [SP5] | ABSENCE OF BLOOD PARASITES IN PENGUINS (*PYGOSCELIS ADELIAE*, *PYGOSCELIS ANтарCTICA*, *PYGOSCELIS PAPUA*) AT KING GEORGE ISLAND, SOUTH SHETLAND ISLANDS (ANTARCTIC PENINSULA)  
Ralph Eric Thijs Vanstreels |
| [SP6] | NOVEL ASSESSMENT OF EXPOSURE AND EFFECTS OF PETROLEUM-RELATED EMISSIONS ON BIRDS  
Luis Cruz |
| [SP7] | SURVEILLANCE OF PARAMYXOVIRUS TYPE 1, AVIAN INFLUENZA VIRUS AND *MYCOPLASMA GALLISEPTICUM* IN FREE-RANGING BIRDS CAUGHT NEAR COMMERCIAL POULTRY FARMS IN SÃO PAULO STATE, BRAZIL  
Renata Ferreira Hurtado |
| [SP8] | REAL TIME RT-PCR DETECTION OF AVIAN INFLUENZA VIRUS AND NEWCASTLE DISEASE VIRUS IN PELAGIC BIRDS FROM FERNANDO DE NORONHA ARCHIPELAGO, BRAZIL  
Renata Ferreira Hurtado |
| [SP9] | TESTING FOR AVIAN PARAMYXOVIRUS-1 (NEWCASTLE DISEASE) IN RESIDENT PASSERINES WITHIN THE MISSISSIPPI VALLEY LOESS PLAIN  
Andrea J. Ayala |
| [SP10] | INVESTIGATING WATERBORNE TRANSMISSION OF *TOXOPLASMA GONDII* BETWEEN FERAL CATS AND ENDEMIC AVIFAUNA IN THE GALAPAGOS ISLANDS, ECUADOR  
Michelle Verant |
| [SP11] | MORTALITIES DUE TO CONSTIPATION AND DYSTOCIA CAUSED BY INTRA-PERITONEAL TRANSMITTERS IN EURASIAN LYNX (*LYNX LYNX*)  
Monique Léchenne |
DISTRIBUTION AND GENETIC DIVERSITY OF ECHINOCOCCUS MULTILOCULARIS IN CANADA
Karen Gesy

PATHOGEN SURVEILLANCE IN ARCTIC FOXES AT KARRAK LAKE, NUNAVUT
Stacey A. Elmore

POPULATION DENSITY AND PHENOTYPIC ATTRIBUTES INFLUENCE THE LEVEL OF NEMATODE PARASITISM IN ROE DEER
Guillaume Body

DIVERSITY OF BAT SPECIES ON ST. KITTS AND IDENTIFICATION USING MOLECULAR METHODS
Jennifer Daly

DETECTION OF FERTILE ANGUILLICOLOIDES CRASSUS IN CAPTIVE RAISED AMERICAN EELS (ANGUILLA ROSTRATA)
Sylvain Larrat

RELATIONSHIP BETWEEN HABITAT CHARACTERISTICS AND DISEASE OCCURRENCE IN ANURAN POPULATIONS OF PRINCE EDWARD ISLAND
Marianne Parent

MORBIDITY AND MORTALITY IN THE HARBOUR PORPOISE (PHOCOENA PHOCOENA) IN CANADA
Heather Fenton

SEROLOGICAL SURVEY OF SELECTED INFECTIOUS DISEASES IN FREE-RANGING CEBUS FLAVIUS (SCHREBER, 1774), FROM BRAZIL
Marina Galvão Bueno

A FEASIBILITY STUDY FOR ESTABLISHMENT OF A NATIONAL WILDLIFE HEALTH CENTRE IN SRI LANKA
Sophie Valeix

WILDLIFE – HUMAN INTERFACE IN THE COMMUNITIES SURROUNDING OLD OYO NATIONAL PARK, NIGERIA
Fayemi Opeyemi O

TULAREMIA IN ALASKA: 1938-2010
Cristina M. Hansen

ANTIMICROBIAL RESISTANCE IN GENERIC ESCHERICHIA COLI ISOLATED FROM WILD SMALL MAMMALS IN SOUTHERN ONTARIO
Samantha Allen
General Poster Session
Thursday August 18, 2011 – 2:20PM – 3:50PM

[P1] CASEOUS LYMPHADENITIS BY CORYNEBACTERIUM PSEUDOTUBERCULOSIS IN CHAMOIS (RUPICAPRA R. RUPICAPRA) FROM NORTH-WESTERN ITALY
Serena Robetto

Serena Robetto

[P3] LEPTOSPIROSIS IN FERAL HOGS (SUS SCROFA DOMESTICUS) IN THE BRAZILIAN PANTANAL
Isabella Fontana

[P4] DESCRIPTION OF A CLUSTER OF DEMODICOSIS IN WILD BOARS (SUS SCROFA) IN FRANCE
Marie Moinet

[P5] IDENTIFICATION OF GASTROINTESTINAL PARASITES IN HIGH MOUNTAIN CARNIVORES AND DOMESTIC RUMINANTS IN THE NATURAL NATIONAL PARK COCUY
Juliana Pérez

[P6] REPORT ON RENAL LESION IN WILD RED DEER (CERVUS ELAPHUS) FIND DEAD IN LOMBARDIA AREA OF THE STELVIO NATIONAL PARK
Alessandro Bianchi

[P7] ENVIRONMENTAL FACTORS ASSOCIATED WITH DEER HAIR LOSS SYNDROME IN COLUMBIAN BLACK-TAILED DEER: IMPLICATIONS FOR SURVEILLANCE AND MONITORING IN THE PACIFIC NORTHWEST
Ryan S. Miller

[P8] MASS MORTALITY EVENT OF MOOSE FROM CONSUMPTION OF TOXIC ORNAMENTALS
Kimberlee Beckmen

[P9] SUSCEPTIBILITY OF CULICOIDES SONORENSIS TO INFECTION WITH EHDV-6 (INDIANA) AND COMPARISON TO EHDV-1 AND -2
Mark G. Ruder

[P10] AN INVESTIGATION OF INDIRECT TRANSMISSION OF M. BOVIS BCG FROM ORALLY VACCINATED WHITE-TAILED DEER TO CATTLE
Pauline Nol

[P11] FATAL YERSINIOSIS IN WILD ROE DEER (CAPREOLUS CAPREOLUS) BY PATHOGENIC STRAIN OF YERSINIA PSEUDOTUBERCULOSIS IN SONDRIO, ITALY
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[P12] PHYLLOGENETIC ANALYSIS OF THE HAEMAGGLUTININ GENE OF CANINE DISTEMPER VIRUS IN WILD RACCOON DOGS FROM SOUTH KOREA
   Eunju Kim

[P13] TRICHINELLA IN THE BLACK BEAR (URSUS AMERICANUS) SOUTH OF THE 50TH PARALLEL IN QUEBEC, CANADA: DISTRIBUTION, PREVALENCE, INTENSITY OF INFECTION AND GENOTYPES
   Nathalie Côté

[P14] ACUTE LEAD TOXICOSIS AND PARTIAL INTESTINAL OBSTRUCTION IN A FREE-RANGING OREGON COUGAR
   Julia Burco

[P15] AN ECOSYSTEMIC APPROACH TO RABIES IN NUNAVIK: THE ROLE OF ARCTIC FOXES AND DOGS
   Audrey Simon

[P16] SAMPLING SNOW LEOPARDS (UNCIA UNGÀNCIA) IN THE WILD – A NON-ELECTRIFYING EXPERIENCE
   Jonas Malmsten

[P17] PREVALENCE OF DIROFILARIA IMMITIS, THE CAUSATIVE AGENT IN CANINE HEARTWORM DISEASE, IN ARIZONA FROM 2008 TO 2010 USING FERAL CANINES AS A SENTINEL SPECIES
   Victoria Olsen-Mikitowicz

[P18] SEROLOGIC SURVEY FOR LEPTOSPIRA INTERROGANS IN RACCOONS AND STRIPED SKUNKS FROM SOUTHERN QUÉBEC, CANADA
   Nathalie Côté

[P19] HEALTHY EVALUATION OF FREE-LIVING CAPYBARAS (HYDROCHOERUS HYDROCHAERIS) IN SÃO PAULO STATE – BRAZIL
   Rosely Gioia-Di Chiacchio

[P20] UNDERSTANDING THE INTRODUCTION OF ANTIMICROBIAL RESISTANCE THROUGH THE PET TRADE: USING THE TOKAY GECKO (GEKKO GEKKO) AS A MODEL
   Christine Casey

[P21] OCCURRENCE AND MOLECULAR CHARACTERIZATION OF GIARDIA DUODENALIS FROM CAPTIVE WILD MAMMALS
   Fabiola E. S. Prioste

[P22] ESTIMATE OF THE PREVALENCE OF VECTOR BORNE ZOONOTIC BACTERIAL INFECTIONS IN THE RIPARIAN BRUSH RABBIT (SYLVILAGUS BACHMANI RIPARIUS) AND THEIR ECTOPARASITES
   Kelly Schmitz
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Francesca Rizzo

RESULTS OF A MONITORING PROGRAM FOR THE DIAGNOSIS OF ORTHOMYXOVIRUS, PARAMYXOVIRUS, SALMONELLA AND CHLAMYDIA INFECTIONS IN WILD BIRDS CIRCULATING IN NORTHWESTERN ITALY  
Serena Robetto

HIGHLY VIRULENT “EXTRA-INTESTINAL PATHOGENIC ESCHERICHIA COLI” (EXPEC) STRAINS ARE PRESENT IN FREE-LIVING FRIGATES (FREGATA MAGNIFICENS) FROM THE BRAZILIAN COAST  
Vania Maria de Carvalho

CHLORDECONE CONTAMINATION OF THE FRENCH ISLAND OF MARTINIQUE: LANDBIRDS ARE NOT SPARED  
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DETECTION OF E. COLI TESTING AND EVALUATION OF ANTIMICROBIAL RESISTANCE FROM CLOACAL SWABS OF GOLDEN CONURE (GUARUBA GUAROUBA) KEPT IN CAPTIVITY IN SAO PAULO STATE -BRAZIL  
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Caroline Millins

NECROTIC ENTERITIS ASSOCIATED WITH CLOSTRIDIUM PERFRINGENS IN A CAPTIVE MUTE SWAN  
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PHYLOGENETIC CHARACTERIZATION OF AVIPOXVIRUS STRAINS FROM PIGEONS AND HOODED CROWS IN NORTHERN ITALY  
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[P34] INVESTIGATION ON A HIGH MORTALITY EPISODE IN EURASIAN COLLARED-DOVES (*STREPTOPELIA DECAOCTO*) IN ITALY
Roberta Taddei

[P35] LOW DENSITY OF SEABIRD TICKS (*IXODES URIAE*) IN PENGUINS (*PYGOSCELIS ADELIAE, PYGOSCELIS ANTARCTICA, PYGOSCELIS PAPUA*) AT KING GEORGE ISLAND, SOUTH SHETLAND ISLANDS (ANTARCTIC PENINSULA)
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[P36] GENETIC CHARACTERIZATION OF AVIAN INFLUENZA VIRUSES ISOLATED FROM WILD BIRDS IN KOREA DURING 2006-2009
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[P37] SUSCEPTIBILITY OF GULLS TO WILD BIRD-ORIGIN LOW PATHOGENIC AVIAN INFLUENZA VIRUSES
Justin Brown

[P38] WILD BIRDS IN SOUTH CHINA AGRO-ECOSYSTEMS AND LONG-DISTANCE SPREAD OF H5N1
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[P39] ABIOTIC FACTORS AFFECTING PERSISTENCE OF AVIAN INFLUENZA VIRUS IN WATER
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[P40] ENVIRONMENTAL DETECTION OF THE FUNGAL PATHOGEN *GEOMYCES DESTRUCTANS* IS COMPLICATED BY THE PRESENCE OF SIMILAR *GEOMYCES* SPP. IN BAT HIBERNACULA
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[P41] SPATIAL VARIABILITY OF BIOLOGICAL AND CHEMICAL CONTAMINANTS IN NURSERIES OF LESSER HORSESHOE BAT: PRELIMINARY RESULTS IN FRANCHE-COMTÉ (EASTERN FRANCE)
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[P42] COMPARISON OF POLYMERASE CHAIN REACTION (PCR) ANALYSIS OF SKIN SWABS AND TISSUE SAMPLES FROM BATS FOR THE DETECTION OF *GEOMYCES DESTRUCTANS*
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[P43] THE SCREENING OF *BRUCELLA CETI* IN HARBOUR PORPOISES (*PHOCOENA PHOCOENA*) STRANDED ON THE DUTCH COAST
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[P44] REMOTELY-DELIVERED CHEMICAL IMMOBILIZATION OF ADULT FEMALE STELLER SEA LIONS (*EUMETOPIAS JUBATUS*) FOR PHYSIOLOGICAL SAMPLING AND SATELLITE TELEMETRY ATTACHMENT
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[P45] SEVERE CHOLANGIOHEPATITIS IN GREY SEALS (HALICHOERUS GRYpus) IN THE BALTIC SEA CAUSED BY THE ZOONOTIC TREMATODE PSEUDAMPHISTOMUM TRUNCATUM
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[P46] MAIN HISTOLOGIC FINDINGS IN SOUTHERN RIGHT WHALES BEACHED AT PENINSULA VALDES, ARGENTINA
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[P47] OROANAL PAPILLOMA IN A ROUGH-TOOTHED DOLPHIN (STENO BREDANENSIS) EXPOSED TO HIGH LEVELS OF PCB’S AND DDT’S
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[P48] SKELETAL SYSTEM PATHOLOGY IN A SOUTHERN RIGHT WHALE (EUBALAENA AUSTRALIS) FROM PENÍNSULA VALDÉS, ARGENTINA
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[P49] A COMPARISON OF BREVETOXIN TISSUE LEVELS IN SELECT MARINE MAMMALS OF SOUTHWEST FLORIDA
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[P50] PRESENCE OF HUMAN HERPES VIRUS IN CAPTIVE NEW WORLD PRIMATES IN PERU
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[P51] HISTOPATHOLOGY AND PARASITES OF A POPULATION OF BLACK CAIMAN (MELANOSHUCUS NIGER) IN BRAZIL
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[P52] HISTOPATHOLOGY OF BRAZILIAN ANURAN AMPHIBIANS POSITIVE FOR BATRACHOCYHTRIUM DENDROBATIDIS: PRELIMINARY DATA
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[P53] WALLEYE ARE RESISTANT TO VIRAL HEMORRHAGIC SEPTICEMIA VIRUS REINFECTION AFTER PREVIOUS EXPOSURE
Alexandra Reid

[P54] EXPERIMENTAL INFECTION OF WALLEYE (SANDER VITREUS) WITH VHSV IVB AND THE EFFECT OF TEMPERATURE AND WALLEYE STRAIN
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[P55] CHLAMYDIA-LIKE ORGANISM IN LAKE TROUT (SALVELINUS NAMAYCUSH)
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[P56] WILDLIFE HEALTH PROGRAM: A WILD UNGULATES DISEASES MONITORING IN AOSTA VALLEY REGION (NORTHWESTERN ITALY)
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[P57] EMBRACING EMERGENT INFORMATION TECHNOLOGY TO ENHANCE WILDLIFE DISEASE INVESTIGATION, RESEARCH AND EDUCATION OUTCOMES
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[P58] WILDLIFE NETWORKS: USEFUL TOOLS FOR MONITORING SIDE EFFECTS OF PESTICIDES ON WILDLIFE. EXAMPLE OF SAGIR (FRANCE)
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[P59] WILDLIFE PARASITE DIAGNOSTIC ACTIVITY AT THE ALBERTA NODE OF CANADIAN COOPERATIVE WILDLIFE HEALTH CENTRE
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[P60] INFORMATION TECHNOLOGY AIDS IN EMERGING DISEASE PREDICTION
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[P61] NEW STRATEGIES AND TOOLS FOR MONITORING WILDLIFE HEALTH
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[P62] PRESENT REHABILITATION AND RELEASE LEGISLATION- ARE WE BEING REASONABLE?
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[P63] PRIORITISATION OF WILDLIFE PATHOGENS FOR DEVELOPMENT OF NEW TECHNOLOGIES FOR SURVEILLANCE IN EUROPE
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[P64] ANTIMICROBIAL RESISTANCE IN GENERIC ESCHERICHIA COLI FROM LIVESTOCK,
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[P65] THE NORTHEAST WILDLIFE DISEASE COOPERATIVE
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[P66] THE SAGIR NETWORK: USEFUL TOOL FOR OUTBREAK-BASED SURVEILLANCE
Anouk Decors

[P67] ROLE OF WILDLIFE TRADE IN THE ECOLOGY OF INFECTIOUS DISEASES: RISK ASSESSMENT AND RECOMMENDATIONS
Aubrey Tauer

[P68] CREATION OF AN INTERAGENCY "MARYLAND ONE HEALTH BULLETIN" FOR VETERINARIANS AND HEALTH CARE WORKERS
Cindy P. Driscoll