

## Appendix D. OTN Canada Year 5 (2014) Conference Travel

### Project 4.2. Hebert, Ross (Dalhousie)

Conference	Location	Dates	Attendee	Cost
OTN Symposium	Ottawa	June 2014	Adam Comeau	N/A

At the OTN Symposium, Adam Comeau presented what the glider program is doing and how it could be used by other projects.

### Project 4.3. Taggart (Dalhousie)

Conference	Location	Dates	Attendee	Cost
International Congress on the Biology of Fish	Edinburgh, Scotland	02.08.14 - 08.08.14	Broell, F.	\$3089.35
American Fisheries Society Annual Meeting	Quebec City, Canada	18.08.14 - 22.08.14	Broell, F.	\$1047.73
5 <sup>th</sup> Biologging Symposium	Strasbourg, France	21.09.14 - 28.09.14	Broell, F.	\$2484.94

International Congress on the Biology of Fish: This congress attracted a variety of fish biologists from Europe and North America. As there were few contributions from fish-telemetry scientists, and very few attendees were aware of the Ocean Tracking Network, the research presented by Broell served two purposes: 1) it introduced a new technology for studying fish in the ocean and in the laboratory via accelerometry techniques and 2) it introduced the Ocean Tracking Network to a wider audience through the oral presentation and subsequent networking.

American Fisheries Society: This was an invited oral presentation by Broell within the 'Emerging Technology' theme section, wherein we presented our emerging technology, including the industrial spin-off Maritime bioLoggers, to a wider audience (governmental, industrial and academic, etc.) A summary of Broell's presentation is to be published in the Fisheries Information and Technology Newsletter.

5th Biologging Symposium: The 5th Biologging Science Symposium was an excellent venue to learn about new developments within the wildlife satellite telemetry and global biologging research community; attendees included many from Europe, Japan, North America and Australia. The symposium demonstrated the challenges associated with the general shift in focus from tagging individual animals of one species over short (week to month) periods to tagging groups or populations of multiple species and over longer (year) time-scales. This indicated that

the Ocean Tracking Network really is at the forefront of solving some of the challenges presented during this symposium.

#### **Project 4.5. Dodson, Castonguay (Laval)**

Conference	Location	Dates	Attendee	Cost
American Fisheries Society Annual Meeting	Québec city, QC, Canada	Aug 17-21, 2014	Mélanie Béguer-Pon	\$935.23
American Fisheries Society Annual Meeting	Québec city, QC, Canada	Aug 17-21, 2014	Julian Dodson	\$0
American Fisheries Society Annual Meeting	Québec city, QC, Canada	Aug 17-21, 2014	Martin Castonguay (organizer)	\$0
Coastal Zone Canada	Halifax, NS, Canada	Jun 15-18, 2014	Mélanie Béguer-Pon	\$250
Ocean Sciences Meeting	Honolulu, HI, USA	Feb 23-28, 2014	Mélanie Béguer-Pon	\$2,738

The American Fisheries Conference was a huge meeting and it included two symposia of major interest: "The international Eel symposium" and the "Fish Migration and OTN" symposium. Our team was in charge of organizing and chairing the OTN symposium which included 17 oral presentations, presented the objectives and structure of the OTN and provided a forum for the presentation of fish telemetry studies performed by a wide variety of researchers, both members and non-members of OTN. Several talks focused on the use of coupled biophysical particle-tracking models as a means of testing different hypotheses concerning orientation ability relative to oceanic circulation patterns. Some talks also focused on geomagnetic navigation. The array of species studied by participants was impressive and the diversity of these acoustic telemetry studies demonstrated the importance of multidisciplinary networks such as OTN to promote telemetry technology to not only identify mechanisms of migration, but also topics of immediate management, policy, and decision-making importance such as habitat preference, habitat connectivity, and the success of habitat enhancement programs.

The Coastal Zone Conference included the session: "From Science to Governance: Ocean Tracking Research for the Betterment of Canadian Marine Ecosystems and Resource Management". It thus was a great occasion for OTN members to present the natural science, technology, social sciences and governance aspects of their project. Four case studies were presented, included the one about the American eel. They were presented by pairs of researchers (natural scientist + social scientist) who highlighted the scientific advances in tracking marine species and the ongoing governance challenges.

The Ocean Sciences Meeting is a huge international conference. Participation of OTN members showed how the network bring together both marine biology and oceanography researchers to improve our understanding of the linkages between physical, chemical and biological conditions,

and animal movements. For instance modeling approaches such as ours about the migration of American eels remain very rare and very few presentations integrated both animal movements and physical oceanography.

#### **Project 4.6. Stokesbury, Dadswell, Litvak (Acadia, Mt. Allison)**

Conference	Location	Dates	Attendee	Cost
American Fisheries Soc.	Quebec	August 2014	Stokesbury	0
AFS	Quebec	August	Beardsall	0
AFS	Quebec	August	Logan-Chesney	0
AFS	Quebec	August	Buhariwalla	0
ICES	La Caruna, Spain	September	Stokesbury	0
OTN 4 <sup>th</sup> symposium	Ottawa	June	Stokesbury	0
OTN	Ottawa	June	Beardsall	0
OTN	Ottawa	June	Stewart	0
OTN	Ottawa	June	Logan-Chesney	0
OTN	Ottawa	June	Buhariwalla	0

#### **Project 4.7. Iverson, Bowen, Mills Flemming (Dalhousie)**

Conference	Location	Dates	Attendee	Cost
5 <sup>th</sup> Biologging Symposium	Strasbourg, France	21-27 Sept. 14	D. Lidgard	\$2800
4 <sup>th</sup> OTN symposium	Ottawa, Canada	3-5 June 2014	D.Lidgard	\$550
4th OTN symposium	Ottawa, Canada	3-5 June 2014	L. Baker	\$550

5<sup>th</sup> Biologging Symp., Lidgard: Through networking with other professionals within the field, Lidgard was able to learn of new tools and technologies and ideas. This knowledge will be transferred to OTN. For example, Lidgard was in discussion with a company that builds custom-designed biologgers. In 2015 there is some potential for the development of a video-camera to be deployed on Sable Island grey seals that will turn on when the seal is engaged in likely foraging behaviour. If successful, this tool will allow Lidgard and collaborators to determine whether grey seals are foraging during certain behaviours at sea and during encounters with Vemco tagged fish.

Through networking, Lidgard was able to promote awareness of OTN's activities and goals, particularly the grey seal bioprobe project. As a result, there is some potential for Lidgard to assist with the development of a project in Oregon, USA, that will examine interactions between salmon and harbour seals using VMT technology, and to suggest avenues of grey seal research for research groups on the north-east coast, USA.

<b>Project 4.8. Mills Flemming (Dalhousie)</b>
--

Conference	Location	Dates	Attendee	Cost
International Council for the exploration of the Seas	Reykjavic, Iceland	Sept 2013	Laurie Baker	0 (\$ provided by other sources - Sara's discovery grant)
International Statistical Ecology Conference	Montpellier, France	Jul 2014	Laurie Baker	1500

<b>Project 4.12, 4.13, 4.14, 4.15. Hinch, Cooke, Crossin (UBC, Carleton, Dalhousie)</b>
---

Conference	Location	Dates	Attendee	Cost
Symposium on Animal Movement and the Environment	Raleigh, NC, USA	May 5-7, 2014	Eduardo Martins	\$2400
American Fisheries Society 144th Annual Meeting	Quebec, QC, Canada	August 17-21, 2014	Eduardo Martins	\$2000
International Conference on Engineering and Ecohydrology for Fish Passage	Madison, WI, USA	June 9-11, 2014	Nich Burnett	\$1500
International Symposium on Aquatic Animal Health	Portland, Oregon	September 1-5, 2014	Amy Teffer	\$900
International Congress of the Biology of Fish	Edinburgh, Scotland	August 3-7, 2014	Amy Teffer	\$2000
Western Division of the American Fisheries Society Annual Meeting	Mazatlán, Mexico	April 7-11, 2014	Amy Teffer	\$1500
The 5th International Bio-logging Science Symposium	Strasbourg, France	September 22 – 27, 2014	Montana F. McLean	\$2600
Evolutionary Ethology and Ecology of Fishes	Corvallis, Oregon	June 22-25, 2014	Arthur Bass	\$500
NSERC HydroNet Symposium	Burnaby, BC	May 1, 2014	Nolan Bett	\$0

International Conference on Engineering and Ecohydrology for Fish Passage	Madison, WI	June 9-11, 2014	Nolan Bett	\$800
Ecological and Evolutionary Ethology of Fishes	Corvallis, Oregon	June 22-25, 2014	Nolan Bett	\$500
Western Division American Fisheries Society Annual Meeting	Mazatlán, Mexico	April 7-11, 2014	Katrina Cook	\$1000
International Congress of the Biology of Fish	Edinburgh, Scotland	August 3-7, 2014	Scott Hinch	\$2500
International Congress of the Biology of Fish	Edinburgh, Scotland	August 3-7, 2014	Steve Cooke	\$2200
International Congress of the Biology of Fish	Edinburgh, Scotland	August 3-7, 2014	Jacqueline Chapman	\$1800
International Congress of the Biology of Fish	Edinburgh, Scotland	August 3-7, 2014	Taylor Ward	\$1800
American Fisheries Society 144th Annual Meeting	Quebec, QC, Canada	August 17-21, 2014	Mike Donaldson	\$700
International Conference on Engineering and Ecohydrology for Fish Passage	Madison, WI, USA	June 9-11, 2014	Collin Middleton	\$1500
Ecological and Evolutionary Ethology of Fishes	Corvallis, Oregon	June 22-25, 2014	Vanessa Minke-Martin	\$500
American Fisheries Society 144th Annual Meeting	Quebec, QC, Canada	August 17-21, 2014	Vivian Nguyen	\$600
Ecological and Evolutionary Ethology of Fishes	Corvallis, Oregon	June 22-25, 2014	Natalie Sopinka	\$1200
American Fisheries Society Washington-British Columbia Chapter Annual General Meeting	Vancouver, Washington, USA.	March 24-27, 2014	Natalie Sopinka	\$1200

We sent several HQP to conferences, all of which presented research and in most cases, students had to secure additional funds on their own in order to make the trip financially feasible (e.g. through conference and university travel awards). Most of the funding for this conference travel came from other grant support (not OTN). The PIs did not receive any OTN funding to attend their conferences. Only a small number of students received any direct OTN support (partial support for Art Bass, Vanessa Minke-Martin to Corvallis Conference). Attendance added clear value to the network as students were presenting results at large international venues, in addition to smaller, regional ones. Not indicated above are the eleven presentations made at the OTN

annual conference in Halifax, and the presentation made by Montana McLean (funded through OTN) at the sturgeon workshop at UBC.