

28TH CONFERENCE OF THE EUROPEAN CETACEAN SOCIETY
Liège, Belgium 2014



5th-9th April 2014

"Marine mammals as sentinels of a changing environment"

<http://liege.europeancetaceansociety.eu>



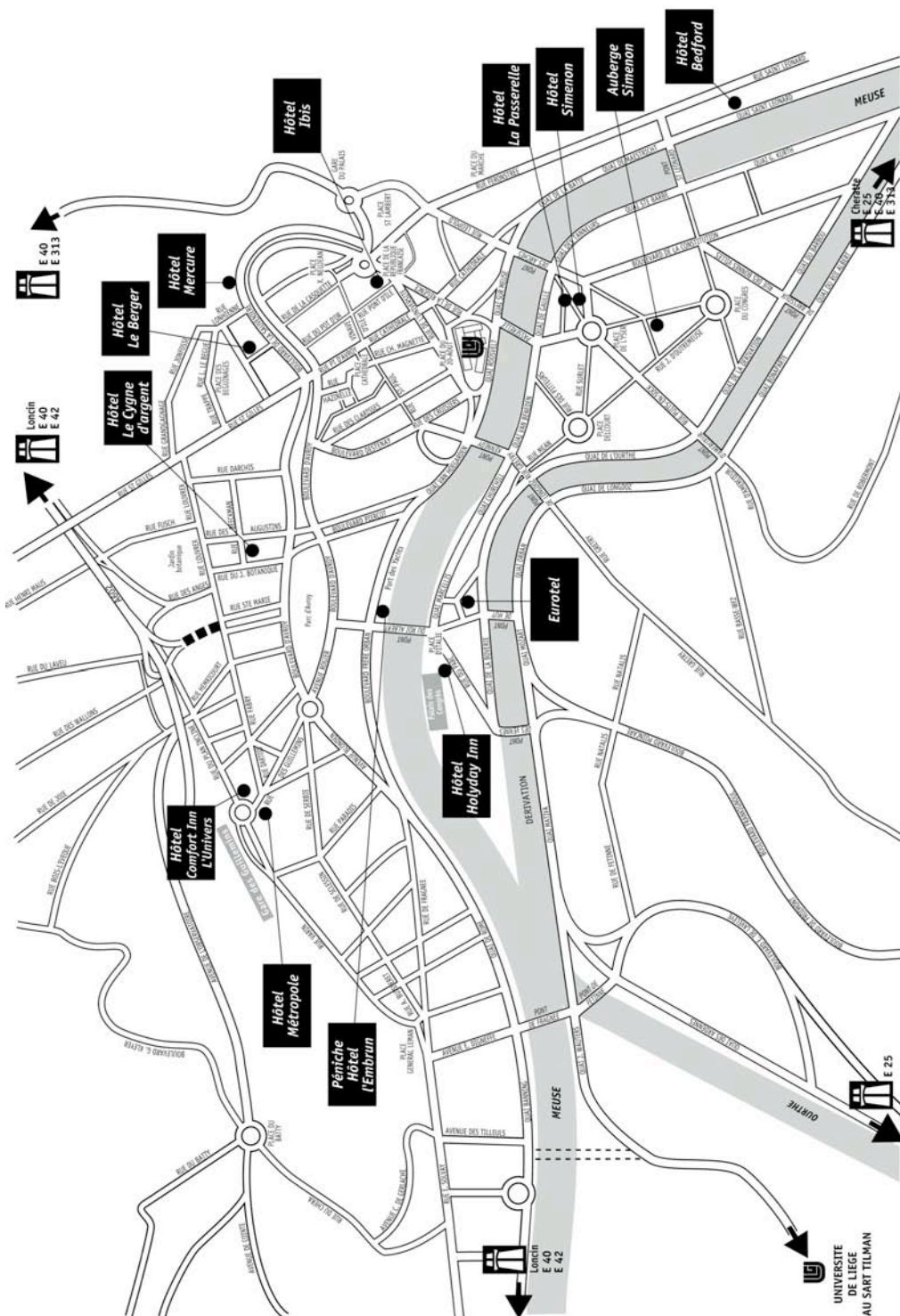
Organization





GENERAL INFORMATION

Liège City





Important Places during ECS conference

Event	Place to be
Main Train station in Liège	Gare des Guillemins
Icebreaker reception, workshops, poster sessions et plenary sessions	Museum-Aquarium de Liège, Quai Van Beneden, Liège
Video Night	Amphithéâtres de l'Opéra, salle Noppius, Place de la République française, 41, Liège (just beside the hotel IBIS)
Banquet and dancing	Société Littéraire de Liège Place de la république Française, 5, Liège (in front of the Galerie Opéra where was held the video session)
Sandwich, piece of chocolate cake or snack craving?	Café des Arts Place du 20-Août, 16, Liège 10% off with your ECS badge!
Gourmet Craving for lunch or dinner?	Le Labo4, just behind the Aquarium-Museum, Quai van Beneden 20/22, 4020 Liège
Evenings drink in a nice, spacious and cozy pub? They provide also tasty veg and non veg food	Brasserie Sauvenière, Place Xavier-Neujean, 12, Liège (5 minutes away from the <i>Carré</i> where you can dance the whole night in dozens of different pubs).
Shopping craving?	Shopping mall Médiacité, entrance by the rue Gretry, 5 minutes from Aquarium-Museum
Again shopping craving?	Downtown from Place Cathédrale to Place Saint-Lambert
Other good restaurants in a very old and charming street?	Rue Roture, Outremeuse



The University of Liege will host the 28th annual conference of the ECS from April 5th to April 9th, 2014.

The University of Antwerp (UA), the Catholic University of Louvain (UCL), the University of Ghent (UGhent), and the Royal Institute for the Natural Sciences of Belgium (RINSB) co-organize this event.

The theme for 2014 is: "***Marine mammals as sentinels of a changing environment***" in order to present the consequences of global change on these species as well as the principal dangers that threaten their future.

Program will include two days of workshops and three days of plenary sessions including two poster sessions.

Local organizing committee

Krishna Das and Thierry Jauniaux (ULg, co-chairs), Ronny Blust (UA), Jean-Marie Bouqueneau (ULg), Freddy Coignoul (ULg), Adrian Covaci (UA), Cathy Debier (UCL), Marjan Doom (UGent), Sylvie Gobert (ULg), Jan Haelters (MUMM), Sigrid Maebe (MUMM), Joseph Schnitzler (ULg), Liesbeth Weijs (UA).

International organizing committee





















Hanna Nuuttila, Roland Lick, Joanne O'Brien, Toby Oliver, Ayaka Ozturk.

Conference scientific committee

Thierry Jauniaux and Krishna Das (co-chairs), Michel Andre, Ronny Blust, Cristina Brito, Florence Caurant, Pieter Cornillie, Adrian Covaci, Cathy Debier, Steven Degraer, Jacques Godfroid, Ailsa Hall, Olivier Lambert, Graham Pierce, Jan Haelters, Paddy Pomeroy, Tilen Genov, Peter Ross, Joseph Schnitzler, Ursula Siebert, Liesbeth Weijs, Andrew Wright.



We are very grateful to all our collaborators and sponsors for continuous logistic and financial support

Université de Liège		Café des Arts	
Aquarium-Museum of Liège		Labo 4	
Universiteit Antwerpen, UA		Brasserie de la Liègne	
Universiteit Gent, UGent		Delhaize de Boncelles	
Université Catholique de Louvain, UCL		Brasserie Blérot	
Federal Public Service Health, Food Chain Safety and Environment		Delirium tremens	
Belgian Science Policy Office, belspo		Rejouissances, ULg	
Fonds Wetenschappelijk Onderzoek, FWO		Pom'Art	
Fonds de la Recherche Scientifique, F.R.S. -FNRS		Concours Corsica	
Vlaams Instituut voor de Zee, VLIZ		Chocolatier Galler	



Abstract reviewers

Mario Acquarone, Alejandro Aguilar, Eric Alfonsi, Elena Isabel Alonso Velasco, Ayaka Amaha Ozturk, Pia Anderwald, Michel André, Per Berggren, Simon Berrow, Thibaut Bouveroux, Sophie Brasseur, Cristina Brito, Florence Caurant, Pieter Cornillie, Boris Culik, Krishna Das, Léa David, Nick Davsion, Robert Deaville, Eduard Degollada, Sarah Dolman, Greg Donovan, Paulo Dorneles, Ruth Esteban, Peter Evans, Antonio Fernandez, Michael Fontaine, Tilen Genov, Marcela Gerpe, Anita Gilles, Evgeny Goldin, Pavel Gol'din, Jan Haelters, Philip Hammond, Sami Hassani, Erich Hoyt, Maria Iversen, Thierry Jauniaux, Carl Kinze, Roger Kirkwood, Jeremy Kiszka, Virginie Lahaye, Olivier Lambert, Sophie Laran, Finn Larsen, Kristina Lehnert, Mardik Leopold, Colin MacLeod, Barry McGovern, Giuseppe Notarbartolo di Sciarra, Katariina Nuuttila, Joanne O'Brien, Ian O'Connor, Simone Panigada, Helene Peltier, Patrick Pomeroy, Emilie Praca, Flore Samaran, Meike Scheidat, Aviad Scheinin, Joseph Schnitzler, Ursula Siebert, Nick Tregenza, Philippe Verborgh, Liesbeth Weijs, Andrew Wright

Student volunteers

Ana Mafalda Correia, Ewelina Heil, Ayca Eleman, Phillipa Dell, Giulia Roncon, Vera Jordao, Gulce Saydam, Lese Costa, Kirsty Medcalf, Joanna Sarnocińska, Menno Pepijn van Berkel, Inger van den Bosch, Sara Torres Ortiz, Nina Bircher, France Damseaux, Valérie Stekke, Genyffer Troina, Anouk D'Hont, Tara Grosmans, Linda Buame, Sophie Mounet, Pauline Loos, Jean-Marie Graic, Amandine Gillet, Esther Brihaye, Marianna Pinzone, Ophelie Humphrey, Erdem Danyer, Ben Singleton.

Local helpers

Thank you so much to all members of the *Laboratory for Oceanology, Department of Pathology, the Aquarium-Museum* and so many others for support before and during the conference:

France Collard, Alice Cransveld, Mariella Lunetta, Renzo Biondo, Dorothée Pete, François Remy, Nathalie Guillaume, Nathalie Chometton, Christian Michel, Marie Bournonville, Carole Champenois, Martine Jaminon, Farida Benichou, Chahrazed Rahmoundi, Isabelle Barts, Françoise Bruls, Pascal Poncin, Eric Parmentier and his “boys band”.

AND THANK YOU FOR ATTENDING THE 28TH CONFERENCE OF THE EUROPEAN CETACEAN SOCIETY!





Miscellaneous

<p>ECS conference logos design by Delphine Dussaut (delpduss@hotmail.fr)</p>	
<p>Feel-Inde, an ecological and ethical company was chosen to produce beautiful natural and organic cotton bags</p>	
<p>Great music by the Cercle Interfacultaire de Musique Intrumentale (CIMI) financed by the Faculty of Sciences (ULg).</p>	
<p>Cover picture taken by K. Das in collaboration with <i>Aquatic Mammal and Bioindicator Laboratory (MAQUA), School of Oceanography, Rio de Janeiro State University (UERJ), Brazil</i></p>	



Keynote speakers

Ursula Siebert (Germany) is director of and professor at the Institute for Terrestrial and Aquatic Wildlife Research (ITAW) of the University of Veterinary Medicine Hannover, Foundation, Germany. She is an international expert in ecology, health assessment and management of marine mammals. She studied Veterinary Medicine at the University Giessen and Ecole Vétérinaire de Nantes, France (funded by the German Exchange Service and EU-Erasmus-Program). She conducted her doctoral thesis at the Free University of Brussels, Belgium (funded by the European Science Foundation) and at the Justus-Liebig-Universität Giessen, Germany and her habilitation in zoology at the University of Kiel. Prof. Siebert is Diplomate of European College of Zoological Medicine (Wildlife Populations Health). From 1997 to 2004 she was the veterinarian in charge for porpoises and seals of the Fjord- and Belt Centers, Denmark. Her main research interests are habitat use and investigations on health especially for the understanding of effects of human activities on marine mammals. She is member of several advisory groups including TSEG, HELCOM, ICES. Prof. Siebert published more than 150 peer-reviewed publications and book chapters, she supervised numerous Bachelor-, Master-, Doctoral thesis and PhDs on national and international level and was project leader of more than 150 research projects. Prof. Siebert is the 2013 recipient of the *Alexander von Humboldt* research price of the Fond de la Recherche Scientifique (F.R.S.-FNRS), Belgium.



Peter S. Ross (Canada) is the founding Director of the newly-launched Ocean Pollution Research Program of the Vancouver Aquarium. He is an international expert in the area of ocean pollution, having published over 125 scientific articles and book chapters. He served as a Research Scientist with the Canadian government between 1996 and 2013. He is Adjunct Professor at the School of Environmental Studies, University of Victoria. He obtained his PhD from the University of Utrecht in the Netherlands (1995), MSc from Dalhousie University in Halifax, Nova Scotia (1990), and BSc (Honours) from Trent University in Peterborough, Ontario (1985). He has pioneered new techniques to evaluate the effects of persistent pollutants on the health of marine mammals, having led groundbreaking studies on the interactions between contaminants, the endocrine system and the immune system using a combination of field and semi-field studies. He is a frequent advisor to conservation teams in different parts of the world, and has provided advice in support of chemical regulation, species at risk, ocean disposal and ocean health. Dr Ross attaches great importance to his work with coastal First Nations and Inuit communities on issues surrounding safe traditional seafoods. Dr Ross is the 2012 recipient of the *Murray A. Newman Award for Significant Achievement in Aquatic Research* from the Vancouver Aquarium.

Graham Pierce (Scotland, UK) is a professor at Oceanlab, University of Aberdeen and Visiting Chair in Marine Studies at University of Aveiro. He has worked on marine mammals, on diet, life history, contaminants, habitat use and interactions with fisheries, especially in the UK, Spain and Portugal, for over 25 years. He also has research interests in cephalopods and fisheries, and has published over 200 scientific papers. He is a member (and co-chair elect) of the International Council for the Exploration of the Sea's Working Group in Marine Mammal Ecology, which helps ICES formulate advice related to marine mammal conservation, as well as chairing the ICES Steering Group on Ecosystem Function, and is a former ECS Council member. He also collaborates with several governmental and non-governmental organizations who carry out marine mammal monitoring and are involved in the implementation of the Marine Strategy Framework Directive.





SATURDAY 5TH APRIL

WORKSHOPS: Liège Aquarium-Museum – main coordinator

- 09:00-18:00 **Scientific progress on cetaceans and perspectives in the Pelagos Sanctuary** – Fanny Dubois
09:00-18:00 **SAMBAH spring progress meeting 2014** - Ida Carlén
10:00-15:30 **Students' workshop: Career enhancing skills only taught through experience - learn from the veterans** - Tobias Rosas Da Costa Oliver
14:00-18:00 **Exploring technologies for improved data capture from platform of opportunity surveys of marine mammals** - Rachel Davies
14:00-18:00 **Aquatic mammals from Latin America** - Paulo Renato Dorneles

SUNDAY 6TH APRIL

WORKSHOPS: Liège Aquarium-Museum – main coordinator

- 09:00-18:00 **Introducing noise into the marine environment: what are the requirements for an impact assessment for marine mammals?** - Peter Evans
09:00-18:00 **Communicating marine mammal science to the general public** - Volker Smith
09:00-13:00 **New development in pollutant's studies in marine mammals** - Liesbeth Weijts
9:00-13:00 **Euroseals** - Patrick Pomeroy
14:00-18:00 **Emerging Infectious Disease in Marine Mammals: Sentinels of Change in the Environment** – Jacques Godfroid
14:00-18:00 **Marine mammal rescue** - Mark Peter Simmonds
14:00-18:00 **Marine mammals as indicators of historical changes** - Cristina Brito

REGISTRATION - 16:00-18:00 Liège Aquarium-Museum

ICEBREAKER RECEPTION – 18:00-20:00 Aquarium-Museum



MONDAY 7TH APRIL

REGISTRATION – 08:00-8:45 Aquarium-Museum of Liège

OPENING CEREMONY – 08:45. Presence of Academic and Politic Authorities of University of Liège.

Musical animation: Cercle Inter-facultaire de Musique Instrumentale (CIMI)

Only presenting authors are listed below

KEY-NOTE SPEAKER

09:45 **How evaluating the health of marine mammals can benefit their management**– Prof. Ursula Siebert

HEALTH, GENETICS, BYCATCH

Chairman: Ursula Siebert

10:30-10:45: **Assessing Temporal and Spatial Trends in PCBs and DDTs in odontocetes since 1980** - Emma Lockley

10:45-11:00 : **Xenobiotic molecular biomarkers in harbour seals as proxies for pollutant burden and effects?** - Kristina Lehnert

COFFEE BREAK – 11:00-11:30

HEALTH, GENETICS, BYCATCH

11:30-11:45 **Evidence of land-sea transfer of a zoonotic human pathogen, *Campylobacter spp.*, to grey seals (*Halichoerus grypus*)** - Johanna Baily

11:45-12:00 **Gastrointestinal parasites of free-living Indo-Pacific bottlenose dolphins (*Tursiops aduncus*) in the Northern Red Sea, Egypt** - Sonja Kleinertz

12:00-12:15 **Molecular Diet Analysis of Grey Seals (*Halichoerus grypus*) and Harbour Seals (*Phoca vitulina*)** - Mandy Pittman

12:15-12:30 **Genetic vs. Ecological Management Units: What time-scale is relevant for managing threats?** - Joan Gimenez

12:30-12:45 **Exposure of *Monachus monachus* to heavy metals and potential adverse effects on the population status of the species** - Annalisa Zaccaroni

12:45-13:00 **Revisiting common dolphin population structure in the Northeast Atlantic using a population genomics approach** - Amélia Viricel

LUNCH BREAK 13:00-14:30 - Science Advisory Committee meeting

SHORT TALK SESSION 1 –14:30-15:30

Chairman: Anita Gilles

Marine mammals and fisher networks as sentinels of the changing marine environment in East Africa - Per Berggren

Detection functions of C-PODs: determining the probability of detecting harbor



- porpoises using a large hydrophone array** - Katharina Brundiers
- Long-term effects of the offshore wind farm alpha ventus on harbour porpoises** - Armin Rose
- Underwater noise from seismic oil exploration in Baffin Bay, Greenland** - Jakob Tougaard
- Population genetic structure of harbour porpoise *Phocoena phocoena* across Europe: implications for management** - Angela Llavona Vallina
- Direct evidence for grey seal (*Halichoerus grypus*) predation and scavenging on harbour porpoises (*Phocoena phocoena*)** - Thibaut Bouveroux
- Small Delphinid Strandings in the Bay of Biscay (France): How Much Are Observed Trends Affected by Variations in Reporting Rates?** - Matthieu Authier
- Long-term research: essential for understanding how cetaceans are indicators of a changing environment in the Central-Southern Mediterranean Sea** - Adrianna Vella

ACOUSTICS, ABUNDANCE

Chairman: Meike Scheidat

- 15:30-15:45 **Enhanced detection of harbour porpoises prior to ramming, seismic blasts and ammunition clearance using porpoise communication sounds** - Boris Culik
- 15:45-16:00 **Assessing the effect of boat traffic on bottlenose dolphin foraging activity using passive acoustic techniques** - Enrico Pirotta
- 16:00-16:15 **Coda repertoires and social structure of sperm whales (*Physeter macrocephalus*) in the western Indian Ocean** - Leonie Huijser

COFFEE BREAK 16:15-16:45

ACOUSTICS, ABUNDANCE

Chairman: Michel André

- 16:45-17:00 **Effectiveness of real-time detection of harbour porpoises** - Caroline Höschle
- 17:00-17:15 **Acoustically derived growth-rates of male sperm whales (*Physeter macrocephalus*) in the NW Mediterranean Sea** - Nino Pierantonio
- 17:15-17:30 **The dolphin biosonar beam is focused in stages: Validation of a vibroacoustic finite element model using bottlenose dolphin simulations** - Vanessa Trijoulet
- 17:30-17:45 **Large-scale static acoustic survey of a low-density population - estimating the abundance of the Baltic Sea harbour porpoise** - Julia Carlström
- 17:45-18:00 **Harbour porpoises in the Mediterranean Sea; survey confirms their presence in the northern Aegean** - Anna Cucknell

POSTER SESSION 1 – 18:00 – 19:30 Salle de l’Embarcadère du savoir



OPEN LECTURE - Café des Sciences , in French. 20:00-21:30

« *Des mammifères marins et des hommes* » Brasserie Sauvenière, Place Xavier-Neujean, Liège.
Thierry Jauniaux, Ursula Siebert, Jean-Marie Bouquegneau and Krishna Das

Vous appréciez ces discussions animées à refaire le monde autour d'un verre ?



ACCÈS GRATUIT!

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Des mammifères marins et des hommes...

avec

Jean-Marie Bouquegneau, océanologue, ULg
Krishna Das, océanologue, ULg
Thierry Jauniaux, vétérinaire, ULg
Ursula Siebert, vétérinaire, ITAW (Allemagne)

... et VOUS !

lundi 7 avril 2014 à 20 heures
Brasserie Sauvenière (place X.Neujean, 4000 Liège)



POUR EN SAVOIR PLUS
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Organisé dans le cadre de la 28^{ème} conférence de l'European Cetacean Society

En partenariat avec : l'ARD, Réjouisciences, les Relations extérieures et Communication de l'Université de Liège, la Brasserie Sauvenière



Et... Réjouisciences (ULg) le 07/04/2014



TUESDAY 8TH APRIL

KEY-NOTE SPEAKER

09:00-09:45 **North Eastern Pacific killer whales on the edge: a story of pollution and climate change** – Prof. Peter S. Ross

ECOLOGY, BREEDING

Chairman: Peter Ross

09:45-10:00 **Harbour porpoise life history, diet and fisheries interactions in two regions of the Northeast Atlantic: Scotland (UK) and the north-west Iberian Peninsula** - Fiona Read

10:00-10:15 **Seals on holiday: Expansion of the Grey Seal Population in the Dutch Wadden Sea** - Sophie Brasseur

10:15-10:30 **Spatio-Temporal Distribution Patterns of Harbour Porpoise (*Phocoena phocoena*) Calves in German Waters** - Johanna Kottmann

10:30-10:45 **Highly specified lipid tissues of cetaceans: coupling GC and NMR HR-MAS studies unravels variations in biochemical compositions related to biological functions** - Eric Alfonsi

10:45-11:00 **Can the junk food hypothesis be applied to harbour porpoises (*Phocoena phocoena*) in Dutch waters?** - Eileen Hesse

COFFEE BREAK – 11:00-11:30

ACOUSTIC, BEHAVIOUR

Chairman: Sophie Laran

11:30-11:45 **Sound production and behaviour of humpback whales (*Megaptera novaeangliae*) on feeding grounds in NE-Icelandic waters** - Arnar Björnsson

11:45-12:00 **Behavioural responses of long-finned pilot whales to tagging, military sonar and killer whale playbacks** - Fleur Visser

12:00-12:15 **Pre-consent monitoring as part of an Environmental Impact Assessment at the Atlantic Marine Energy Test Site (AMETS) off Co. Mayo, Ireland** - Joanne O'Brien

12:15-12:30 **Meta-analyses of whalewatching impact studies: differences and similarities in disturbance responses among species** - Valeria Senigaglia

12:30-12:45 **Demonstrating robust Consistent Individual Differences in the vigilance behaviours of grey seals (*Halichoerus grypus*) during the breeding season: what more could we learn from a cross-context approach?** - Ross Culloch

12:45-13:00 **Role of bottlenose dolphins and other top predators in linking ecosystem dynamics in the Florida Everglades** - Jeremy Kiszka

LUNCH BREAK 13:00-14:30

Students AGM and NCP meeting



SHORT TALK SESSION 2 14:30-15:30

Chairman: Thierry Jauniaux

Short-, mid- and long-term effect of biopsy sampling on a resident cetacean population - Pauline Gauffier

Vessel activities cause population effects on bottlenose dolphin distribution and behaviour in Cardigan Bay, Wales - Daphna Feingold

Occurrence and behavior of delphinids and harbor porpoises at the northern end of the Istanbul Strait, Turkey - Ayaka Ozturk

Effects of whale watching vessels on male sperm whales (*Physeter macrocephalus*) off Andenes, Northern Norway - Andrea Cosentino

When calling matters: Social and behavioural aspects of long-finned pilot whale vocalisations - Annebelle Kok

Behaviour modification of common bottlenose dolphins relative to vessels in a busy narrow waterway - Sarah Piwetz

Identification of suitable habitats for cetaceans in the Canary Basin, NE Atlantic Ocean: evidences of hotspots for beaked whales - Ana Mafalda Correia

Sowerby's beaked whales in the Azores: ecological insights of an elusive species - Machiel Oudejans

Population ecology of a resident population of common bottlenose dolphins (*Tursiops truncatus*) in North Patagonia, Argentina: the most popular dolphin species on its way out? - Els Vermeulen

ABUNDANCE

Chairman: Jeremy Kiszka

15:30-15:45 **Small cetacean habitats around the largest sandbank in the offshore North Sea – The Dogger Bank revisited** - Anita Gilles

15:45-16:00 **Preliminary estimates of cetaceans abundance in the French EEZ** - Sophie Laran

16:00-16:15 **Insight into the North Atlantic fin whale (*Balaenoptera physalus*) population structure by means of stable isotope analysis** - Morgana Vighi

COFFEE BREAK 16:15-16:45

BEHAVIOUR

Chairman: Sophie Brasseur

16:45-17:00 **Population Viability Analysis of Mediterranean Monk seal (*Monachus monachus*) and significance of dispersal in survival (Northeast Mediterranean Sea)** - Gülce Saydam

17:00-17:15 **The slaughter of the Southwest Atlantic right whale by 19th century whalers: two decades for decimating the population and five to initiate recovery** - Alejandro Aguilar

17:15-17:30 **A review of an unprecedented mass stranding event of short beaked common dolphins on Cape Cod, MA, USA** - Brian Sharp

17:30-17:45 **A new approach to estimate inter-birth interval in a bottlenose dolphin population** - Monica Arso

17:45-18:00 **Piecemeal programs poorly protect porpoise populations (and those of other marine mammals): Why conservation isn't working** -



Andrew Wright

POSTER SESSION 2 – 18:00 – 19:30 Salle de l’Embarcadère du savoir

Tasting of artisanal belgian Beer “La Lienne” and artisanal juices from Pom’Art

VIDEO NIGHT 21:00 – 23:00 Salle Noppius, Opéra, place de la République Française

Chief coordinator: Loïc Michel

WEDNESDAY 9TH APRIL

KEY-NOTE SPEAKER

09:00-09:45 **Marine mammals and Good Environmental Status:**

Science, policy and society; challenges and opportunities – Prof. Graham Pierce

ABUNDANCE, BEHAVIOUR

Chairman: Graham Pierce

09:45-10:00 **Variation in the abundance of marine mammals during the different phases of construction of an offshore wind farm in the North Sea** - Emilie Praca

10:00-10:15 **The recent occurrence of humpback whales in the southern North Sea: a range expansion** - Mardik Leopold

10:15-10:30 **Early dolphin catches the fishing boat: behaviour- and time-specific social structure in bottlenose dolphins** - Tilen Genov

10:30-10:45 **Population genetic structure of Risso’s dolphins (*Grampus griseus*) in the North Pacific based on mitochondrial and microsatellite DNA data** - Ing Chen

10:45-11:00 **Between monitoring strategies and European regulations: how evaluating cetacean conservation status?** - Helene Peltier

COFFEE BREAK – 11:00-11:30

WORKSHOPS REPORTS

11:30-12:30

LUNCH BREAK 12:30-14:00

SHORT TALK SESSION 3 – 14:00-15:00

Chairman: Kristina Lehnert

You can't tell the players without the program: factors affecting species success - Rianna Burnham

The place to be: gender differences in residency patterns of Risso’s dolphins (*Grampus griseus*) in the Azores - Karin Hartman

Tidal influence on the occurrence of the harbour porpoise *Phocoena phocoena* in the Marsdiep area, The Netherlands - Lonneke IJsseldijk

Bottlenose dolphins (*Tursiops truncatus*) inhabit the former Cres-Lošinj Special Marine Reserve, Croatia? - Grgur Pleslić

I-Collect the new platform for a better marine mammal research - Aviad Scheinin

Cetacean in the Pelagos sanctuary: need for a multi-scale management approach - Paola Tepsich



Serological lungworm detection in seals – Sophia Arlena Ulrich
Brucella surveillance in stranded marine mammals from the south of the North Sea. Is the marine wildlife a potential reservoir of brucellosis for humans? Elena Alonso velasco

Annual General Meeting

15:00-16:30

COFFEE BREAK 16:30-17:00

AWARDS (Students, Mandy McMath Conservation and Baleine Libre Video) AND
CONFERENCE CLOSING

17:00-18:00

BANQUET 19:30-22:00

DANCING 22:00- 01:00 am

Société Littéraire de Liège, Place de la République Française, Liège

To enter, you must wear your ECS badge and bring your entrance ticket.



NOTES



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