



WildCRU in association with IUCN/SSC Otter and Small Carnivore Specialist Groups presents

Wild Musteloid Conference

The biology and conservation of wild mustelids, skunks, procyonids and red pandas

Oxford University - 18th - 21st March 2013

Conference sessions at a glance

All talks take place in the Department of Zoology, South Parks Road, Oxford University

Tuesday 19th March

- 08:50 – 10:40 Conference session 1: Ecology and social organisation (1)
- 10:40 – 11:10 Coffee & Tea
- 11:10 – 12:50 Conference session 2: Ecology and social organisation (2)
- 12:50 – 13:50 Lunch
- 13:50 – 15:50 Conference session 3: Populations, habitat associations and the wider landscape
- 15:50 – 16:20 Coffee & Tea
- 16:20 – 18:20 Conference session 4: Musteloids and people

Wednesday 20th March

- 09:00 – 10:40 Conference session 1: Evolution, systematic and genetics
- 10:40 – 11:10 Coffee & Tea
- 11:10 – 12:50 Conference session 2: Lesser known musteloids
- 12:50 – 13:50 Lunch
- 13:50 – 15:50 Conference session 3: Morphology, physiology and behaviour
- 15:50 – 16:20 Coffee & Tea
- 16:20 – 18:20 Conference session 4: Restoration and ex-situ conservation

Thursday 21st March

- 09:00 – 10:40 Conference session 1: Invasives (1)
- 10:40 – 11:10 Coffee & Tea
- 11:10 – 12:50 Conference session 2: Invasives (2)
- 12:50 – 13:50 Lunch
- 13:50 – 15:50 Conference session 3: Research tools
- 15:50 – 16:20 Coffee & Tea
- 16:20 – 17:55 Conference session 4: 5-minute speed presentations

Detailed Conference Sessions

Tuesday 19th March - Morning

Session 1: ECOLOGY AND SOCIAL ORGANISATION (1)

- 08:50 – 09:40 PLENARY TALK: David Macdonald
Musteloid sociality: the grass-roots of society
- 09:40 – 10:00 Nobuyuki Yamaguchi
Embryonic diapause and superfoetation: a winning combination for females?
- 10:00 – 10:20 B. Kostka, M. Scantlebury, C. Harrod, W. Ian Montgomery*
Variation in trophic ecology and foraging specialisations in Eurasian badger
- 10:20 – 10:40 Emmanuel Do Linh San*, Nicola Ferrari, Jean-Marc Weber
Do photoperiod, weather and trophic conditions affect European badger activity and time budgets?
- 10:40 – 11:10 **COFFEE & TEA**

Session 2: ECOLOGY AND SOCIAL ORGANISATION (2)

- 11:10 – 11:30 Andrew Byrne*, J.L. Quinn, J.J. O’Keeffe, S. Green, D. P. Sleeman, S.W. Martin, J. Davenport
Empirically derived movement kernels for the European badger
- 11:30 – 11:50 Dexter Hodder*, Karl Larsen
Winter movements of American mink in north-central British Columbia, Canada
- 11:50 – 12:10 Jessica Groenendijk, Frank Hajek, Christof Schenck, Elke Staib, Paul Johnson, David Macdonald
Demography of the Giant Otter (*Pteronura brasiliensis*) in Manu National Park, Peru, and implications for conservation
- 12:10 – 12:30 Caroline Leuchtenberger*, Carolina Ribas, William Magnusson, Guilherme Mourão
Ecology, behaviour and conservation status of a giant otter population in the Brazilian Pantanal
- 12:30 – 12:50 Chris Newman
Climate changeability – consequences and adaptation in the European badger
- 12:50 – 13:50 **LUNCH**

Tuesday 19th March - Afternoon

Session 3: POPULATIONS, HABITAT ASSOCIATIONS AND THE WIDER LANDSCAPE

- 13:50 – 14:30 PLENARY TALK: Nils Chr Stenseth
TBC
- 14:30 – 14:50 Samuel A. Cushman*, Tzeidle N. Wasserman, Andrew J. Shirk
Limiting factors, thresholds and multi-scale habitat relationships of American marten
- 14:50 – 15:10 Tzeidle N. Wasserman*, Samuel A. Cushman
Gene flow, population connectivity and potential effects of climate change on American marten in the United States northern Rocky Mountains
- 15:10 – 15:30 Matt Gompper
State of the spotted skunk: insights from a decade of research
- 15:30 – 15:50 Anni Koskela*, Salla Kaartinen, Jouni Aspi, Ilpo Kojola, Pekka Helle, Seppo Rytkönen
Does grey wolf presence affect the habitat selection of wolverines?
- 15:50 – 16:20 **COFFEE & TEA**

Session 4: MUSTELOIDS AND PEOPLE

- 16:20 – 16:40 Jerry Belant*, Dwayne R. Etter, C. Adam Bump, Brian J. Frawley, Tim Hiller
Applying science and informed decision making to fisher and American marten harvest management in Michigan, USA
- 16:40 – 17:00 John Fryxell*, Ian Thompson, Jim Baker
Human-mediated source-sink dynamics in the American marten
- 17:00 – 17:20 Yayoi Kaneko*, You-Bing Zhou, Sang-Hoon Han, Jin-Ping Chen, Ying-Zi Zeng, Ming-Xia Zhang, Yik Fui Philip Lo, Bosco Pui Lok Chan, Michael Lau, Chris Newman, Christina Buesching, David W. Macdonald
Economic exploitation of badgers in Japan, southern China and South Korea
- 17:20 – 17:40 Paddy Sleeman
Effect of 'Celtic Tiger' developments on Irish badger populations
- 17:40 – 18:00 Vania Carolina Fonseca da Silva*, Miriam Marmontel
Assessing human-giant otter conflicts in the Amazon: a case study in the context of a sustainable development reserve
- 18:00 – 18:20 Hari P. Sharma*, Jerrold L. Belant, Jon E. Swenson
Effects of livestock grazing on red panda habitat use in Rara NP, Nepal
- 18:20 **CLOSE OF DAY ONE**

Wednesday 20th March - Morning

Session 1: EVOLUTION, SYSTEMATICS AND GENETICS

- 09:00 – 09:40 PLENARY TALK: Klaus-Peter Koepfli
TBC
- 09:40 – 10:00 Roland Kays*, Kristofer M. Helgen, C. Miguel Pinto, Lauren E. Helgen, Mirian T. N. Tsuchiya, Aleta Quinn, Don E. Wilson, Jesus E. Maldonado
Taxonomy of the olingos, genus *Bassaricyon*
- 10:00 – 10:20 Géraldine Veron*, Michelle de Oliveira e Silva, Fabricia Ferreira do Nascimento, Jorge Salazar-Bravo, Pablo Rodrigues Gonçalves, Yuri Luiz Reis Leite, Alfredo R. Langguth, Claudia Regina Silva, Cibele R. Bonvicino
Systematics of the kinkajou
- 10:20 – 10:40 Sofiko Pishchulina*, Ilya Meschersky, Leonid Simakin, Viathcheslav Rozhnov
Hybridisation between sable and pine marten populations in the sympatric zone
- 10:40 – 11:10 COFFEE & TEA**

Session 2: LESSER-KNOWN MUSTELOIDS

- 11:10 – 11:30 Fuwen Wei
Current status and research advance of wild red pandas in China
- 11:30 – 11:50 Yibo Hu*, Yu Guo, Dunwu Qi, Xiangjiang Zhan, Hua Wu, Michael W. Bruford, Fuwen Wei
Population genetic structure and demographic history of red pandas
- 11:50 – 12:10 Andreas Wilting*, Matthew Struebig, David Gaveau, Kristian Metcalfe, The Borneo Mammal and Modelling Consortium, Stephanie Kramer-Schadt
Predicting the future of an unknown species: exposing the range restricted Borneo Ferret Badger to climate and land-cover change
- 12:10 – 12:30 Jerry Dragoo
Hooded skunks: the other *Mephitis*
- 12:30 – 12:50 Joanna Ross
Temporal segregation within the small carnivores of Borneo
- 12:50 – 13:50 LUNCH**

Wednesday 20th March - Afternoon

Session 3: MORPHOLOGY, PHYSIOLOGY AND BEHAVIOUR

- 13:50 – 14:30 PLENARY TALK: Andrew Kitchener*, Carlo Meloro, Terrie Williams
Why so many mustelids? How form and function have led to global success
- 14:30 – 14:50 Carlo Meloro
Ecomorphology of mustelidae
- 14:50 – 15:10 Christina Buesching
Questioning an established theory: The role of latrine use in badger territoriality
- 15:10 – 15:30 Andrzej Zalewski
Geographical variation in food habits of pine marten and sable: different adaptation of sibling species
- 15:30 – 15:50 Marianne Haage*, Ulrika A. Bergvall, Tiit Maran, Kairi Kiik, Anders Angerbjörn
The effect of situation and context on European mink personality trait domains
- 15:50 – 16:20 **COFFEE & TEA**

Session 4: RESTORATION AND EX-SITU CONSERVATION

- 16:20 – 16:40 Angela Glatston
Red panda conservation: a partnership between zoos, field researchers and NGOs
- 16:40 – 17:00 Camilo Sánchez-Giraldo, Rurik List*, Jesús Pacheco, Claudia Molina, Gerardo Ceballos
Black-footed ferret reintroduction in Mexico
- 17:00 – 17:20 Madis Põdra*, Asun Gómez, Santiago Palazón, Tiit Maran, David W. Macdonald
Is reintroduction a feasible conservation tool for a critically endangered European mink?
- 17:20 – 17:40 Carin Wittnich*, Nesime Askin, Michael Belanger
The reintroduction of otters back into their natural habitat - years of trials and tribulations
- 17:40 – 18:00 Tom Serfass*, Jennifer Bohrman
Wildlife policy, science and marketing: through the eyes of the North American river otter
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- 18:00 – 18:20 Roger Powell
The fisher as a model organism: The fruit fly for musteloids?
- 18:20 **CLOSE OF DAY TWO**

Thursday 21st March - Morning

Session 1: INVASIVES (1)

- 09:00 – 09:40 PLENARY TALK: Carolyn King
Small mustelids in New Zealand: invasion ecology down under
- 09:40 – 10:00 Andrew James Veale*, Mick Clout, Dianne Gleeson
Detecting and quantifying stoat invasion and survival rates for island conservation management
- 10:00 – 10:20 Al Glen*, Andrea Byrom, Patrick Garvey, Roger Pech
Mustelid predators in New Zealand's invaded ecosystems
- 10:20 – 10:40 Elaine Fraser*, Xavier Lambin, Matthew K. Oliver, David W. Macdonald
Managing mustelids - uneven population expansion of the invasive American mink influences approach to management and control
- 10:40 – 11:10 COFFEE & TEA**

Session 2: INVASIVES (2)

- 11:10 – 11:30 Robert Stefansson*, Menja von Schmalensee, Rannveig Magnúsdóttir, Pall Hersteinsson
The rise and fall of a mink population
- 11:30 – 11:50 Giulia Santulli Sanzo*, Santiago Palazon, Yolanda Melero, Mireia Plaza, Karla Garcia, Joaquim Gosálbez
Predicting the American mink invasion in Catalonia (Spain): comparison of two iSDM strategies
- 11:50 – 12:10 Yolanda Melero*, Matthew Oliver, Xavier Lambin
Spatial population dynamics of American mink (re)invasion at low density
- 12:10 – 12:30 Berit Michler*, Frank-Uwe F. Michler, Mechthild Roth
Effects of racoon settlement in Germany - a survey about the population biology of an unfamiliar invasive species
- 12:30 – 12:50 Gonzalo Medina-Vogel*, M. Barros, S. Vidal, L. Sáenz
Semi-aquatic and aquatic mustelids as models to study invasive infectious disease and zoonosis
- 12:50 – 13:50 LUNCH**

Thursday 21st March – Afternoon

Session 3: RESEARCH TOOLS

- 13:50 – 14:30 PLENARY TALK: Roger Powell
Stink or swim – Challenges for the study and conservation of small critters that hide, swim, climb and may otherwise make themselves unpleasant
- 14:30 – 14:50 Mike Noonan*, Stephen Ellwood, Andrew Markham, David Macdonald
The Underground Lives of Badgers
- 14:50 – 15:10 Joanna Bagniewska, Lauren Harrington*/Tom Hart*, Graeme C. Hays, Laura Fasola, David Righton, David W. Macdonald
Prying into the private lives of wild animals - what do mink do in their free time?
- 15:10 – 15:30 Adi Barocas*, Howard Golden, Merav Ben-David
Catch you at the latrine - measuring social associations among coastal river otters
- 15:30 – 15:50 Neil Reid*, Mathieu G. Lundy, Brian Hayden, Jane S. Preston, Ferdia Marnell, Robbie A. McDonald, W. Ian Montgomery
Detecting detectability: identifying and correcting bias in Eurasian otter incidence derived from the 'Standard otter survey' method
- 15:50 – 16:20 COFFEE & TEA

Session 4: 5-MINUTE SPEED PRESENTATIONS

- 16:20 Robert Mysłajek*, Sabina Nowak, Anna Rožen, Bogumiła Jędrzejewska
Spatial organisation and diet of European badger in the Carpathian mountains
- 16:25 Adam Ferguson*, Wesley A. Brashear, Robert C. Dowler
Space use, denning ecology and the abiotic niche of the American hog-nosed skunk: a first assessment
- 16:30 Esteban Payan, Evi Paemelaere, Jaime A. Cabrera, Angelica Benitez, Valeria Boron*
Tayra, coati and crab-eating racoon habitat associations, activity patterns and relative abundance in northern South America landscapes
- 16:35 Patrick Garvey*, Al Glen, Mick Clou, Roger Pech
Behavioural reactions of wild-captured stoats to sympatric competitors
- 16:40 Lorenzo Quaglietta*, António Mira, Luigi Boitani
Influence of seasonality and water availability on home ranges and movements of Mediterranean otters
- 16:45 _____

(CONT. OVERLEAF)

Thursday 21st March – Afternoon

Session 4: 5-MINUTE SPEED PRESENTATIONS (cont.)

- 16:50 Santiago Palazon*, Asunción Gómez, Madis Podra, Sonia Orea, Cesar Aguilar, Mirenka Ferrer
Population data on European mink in northern Spain
- 16:55 Menja von Schmalensee*, Robert A. Stefansson, Pall Hersteinsson
Lessons learned from an experimental mink eradication project in Iceland
- 17:00 Helen Bateman*, William F. Swanson
Reliability of fecal progesterone analysis for pregnancy diagnosis and parturition timing in North American river and Asian small-clawed otters
- 17:05 Kirstin Bilham*, Yung Wa Sin, Chris Newman, Christina Buesching, David Macdonald
Antioxidant ecology and oxidative stress in European badgers
- 17:10** _____
- 17:15 Steve Carter
TBC
- 17:20 Hugues Akpona*, Chabi A.M.S. Djagoun, G. A. Mensah, Brice Sinsin
Understanding factors guiding interactions between otters and fish-farmers in Benin: a basis for conflicts mitigation
- 17:25 Alexej Siren*, Peter Pekins, Jill Kilborn, Dan Maynard
Impact of wind farm development in use of high-elevation spruce-fir habitat by American marten
- 17:30 Nicola Okes
Spatial ecology and health of cape clawless otter in an urban environment - current research on the Cape Peninsula
- 17:35 Tom Serfass*, Sadie Stevens
Spotted-neck otters and Rubondo Island NP, Tanzania: The process of developing an ecotourism flagship
- 17:40** _____
- 17:45 Addy de Jongh
TBC
- 17:55 CLOSE OF FINAL DAY**