

Monday, May 24th, 2021

15:00 15:05 Welcome and Opening

15:05 16:05

Session 1: Populations and Ecosystems in a Changing ClimateKeynote **Ben Martin**, *University of Amsterdam (Netherlands)***Understanding the effects of climate change on animal populations through the lens of organismal energetics**16:05 16:25 **Jean-Pierre Desforges**, *McGill University (Canada)*

Individual and population response to climate change in Arctic muskoxen

16:25 16:35 Break

16:35 16:55 **Lola De Cubber**, *Laboratoire d'Océanologie et de Géosciences (France)*

Investigating population dynamics, traits and shore distribution of two sympatric lugworm species over a latitudinal gradient with a DEB-IBM

16:55 17:15 **Wissam Barhdadi**, *Ghent University (Belgium)*

Extending DEB-IBM towards an eco-evolutionary modelling framework

17:15 17:35 **Ines Haberle**, *Ruđer Bošković Institute (Croatia)*

Can an individual tell us something about its population?

17:35 17:55 **Lynda Bradley**, *Emory University (United States)*

Predicting the effects of resource pulses on snail and human schistosome dynamics using a DEB-IBM

17:55 18:00 General discussion

Tuesday, May 25th, 2021

15:00 16:00

Session 2: Theoretical & Methodological Developments and New ApplicationsKeynote **Michael Kearney**, *University of Melbourne (Australia)***What is the status of metabolic theory one century after Pütter invented the von Bertalanffy growth curve?**16:00 16:20 **Charlène Guillaumot**, *Université de Bourgogne Franche-Comté (France)*

Simple or hybrid? The performance of next generation ecological models to study the response of Southern Ocean species to changing environmental conditions

16:20 16:30 Break

16:30 16:50 **Tom Martin**, *University of York (United Kingdom)*

Modelling effects of variability in feeding rate on growth – a vital step for DEB-TKTD modelling

16:50 17:10 **Juan Francisco Robles**, *Universidad de Granada (Spain)*

MultiCalib4DEB: a toolbox bringing multimodal optimization for DEB parameters calibration

17:10 17:30 **Eleni Livanou**, *University of Crete (Greece)*

Modelling nanoflagellates – bacteria interactions in the oligotrophic Eastern Mediterranean Sea

17:30 17:50 **Konrad Matyja**, *Wrocław University of Science and Technology (Poland)*

The larvae, which eat polystyrene: growth, development, and survival analysis

17:50 18:00 General discussion

Wednesday, May 26th, 2021

15:00 16:20

Poster Session

16:20 16:30 Break

16:30 16:50 **Marko Jusup**, *Tokyo Institute of Technology (Japan)*

Let the concept of trait be theoretical

16:50 17:10 **Tin Klanjšček**, *Ruđer Bošković Institute (Croatia)*

DEB theory should not be a dead Christmas tree

17:10 17:30 **Joaquim Tomàs-Ferrer**, *Laboratori d'Investigacions Marines i Aqüicultura (Spain)*

Bayesian estimation of DEB parameters using STAN

17:30 17:50 **Gonçalo Marques**, *MARETEC, Universidade de Lisboa (Portugal)*

Direct greenhouse gas emissions in livestock production

17:50 18:00 General discussion

Thursday, May 27th, 2021

15:00 16:00

Session 3: Effects of anthropogenic and environmental stressorsKeynote **Cheryl Murphy**, *Michigan State University (United States)***The complexity of mixture toxicity and multiple stressors: how incorporating suborganismal processes into dynamic energy budgets can provide a path forward**16:00 16:20 **Benoit Goussen**, *ibacon GmbH (Germany)*

A DEB egg-laying module for birds exposed to pesticides

16:20 16:30 Break

16:30 16:50 **Kim Rakel**, *Research Institute Gaiac (Germany)*

Alive and kicking? Earthworm cocoon test for TKTD Modelling in soil risk assessment of chemicals

16:50 17:10 **Tiago Domingos**, *MARETEC, Universidade de Lisboa (Portugal)*

DEB modelling and IPCC accounting methods: a bridge between frameworks

17:10 17:30 **Jose Moreira**, *MARETEC, Universidade de Lisboa (Portugal)*

Impacts of climate change in temperate and sub-tropical fish species

17:30 17:50 **Sandrine Charles**, *Laboratoire de Biométrie et Biologie Evolutive (France)*

Towards a facilitated use of modelling in Environmental Risk Assessment

17:50 18:00 General discussion

Friday, May 28th, 2021

15:00 16:00

Session 4: Evolution & BiodiversityKeynote **Sabrina Russo**, *University of Nebraska-Lincoln (United States)***Applying the Dynamic Energy Budget approach to models of plant resource allocation**16:00 16:20 **Sylvie Gaudron**, *Laboratoire d'Océanologie et de Géosciences (France)*

Inferring functional traits in a deep-sea wood-boring bivalve using dynamic energy budget theory

16:20 16:30 Break

16:30 16:50 **Emilien Pousse**, *NOAA NEFSC (United States)*Projecting the effect of ocean acidification and warming on two Atlantic surfclam (*Spisula solidissima*) populations through a Dynamic Energy Budget model16:50 17:10 **Isabel Smallegange**, *University of Amsterdam (Netherlands)*

Unusually paced life history strategies of marine megafauna drive atypical sensitivities to environmental change

17:10 17:30 **Charlotte Récapet**, *Behavioural Ecology and Fish Population Biology Laboratory (France)*

Intra-specific variation of life-history traits in Atlantic salmon: environmental and genetic factors

17:30 17:50 **Joany Mariño**, *Memorial University of Newfoundland (Canada)*

Resource and seasonality drive interspecific variability in the Dynamic Energy Budget model

17:50 18:00 Conclusion and Closing