Wednesday, May 31

08:00	Registration opens
09:00	Introduction (Starrlight Augustine)
chair 1: Mil	ke Kearney
09:15	Environmental sustainability challenges in the Arctic – developing solutions with the help of DEB (Keynote 1 - JoLynn Carroll)
10:00	Relating sub-organismal processes that occur at the molecular and cellular level to dynamic energy budgets (Cheryl Murphy)
10:20	Using Dynamic Energy Budget theory at the population scale to limit the risk of structural sensitivity (Clément Aldebert)
10:40	Decrease in food abundance in the nonbreeding habitat may increase resilience of migratory populations (Catalina Chaparro-Pedraza)
11:00	Coffee, tea break
11:30	Modelling effects of environmental stressors on the population dynamics of the European sturgeon: first insight on downstream migration (Maxime Vaugeois)
11:50	Exploring the effect of temperature change on the spatial distribution of benthic species with a DEB-IBM model (Yoann Thomas)
12:10	Discussion / Questions
12:30	Lunch
chair 2: Târ	nia Sousa
14:00	Effects of mixtures explained (Keynote 2- Jan Baas)
14:50	Modelling individual and population dynamics in application to risk assessment of chemical mixtures (Gonçalo Marques)
15:10	Mechanistic model of Paralytic Shellfish Toxins (PSTs) accumulation in the Pacific oyster, Crassostrea gigas (Emilien Pousse)
15:30	Dynamic Energy Budget for modelling 'imprinting': insights from rainbow trout (Bastien Sadoul)
15:50	Tea & posters
chair 3: Nin	na Marn
16:20	A Dynamic Energy Budget model of fish bioenergetics under exposure to realistic PCB and PBDE mixtures: consequences for life-history traits (Khaled Horri)
16:40	Dynamics of lipid storage in marine copepods and its consequences for effects of oil pollution (Tjalling Jager)
17:00	DebX – MOOC on modelling metabolism at the individual level using DEB theory (Tânia Sousa)
19:00	Dinner at Skirri

Thursday, June 01

09:00	Arrival and coffee
chair 4: Ro	oger Nisbet
09:15	A simple application of a complex ecosystem model (Keynote 3 - Sofia Saraiva)
10:00	Using modelling to investigate effects of climate warming on the reproduction of the Pacific oyster <i>Crassostrea gigas</i> in the bay of Brest: from 1960 to 2100 (Mélaine Gourault)
10:20	Modelling the growth of the gilthead seabream (<i>Sparus auratus</i>) for aquaculture using the Dynamic Energy Budget (Inês Lopes)
10:40	Effects of plastic ingestions on the life cycle of an endangered sea turtle (Nina Marn)
11:00	Coffee, tea break
11:30	DeBInfer: Bayesian inference for dynamic models in R (Leah Johnson)
11:50	Comparison between two Derivative-Free Optimization Methods for DEB parameter estimation of different species (Jéssica Morais)
12:10	Discussion / Questions
12:30	Lunch
chair 5: Ja	ap van der Meer
14:00	General Ecosystem Models: virtual tools for the living world (Keynote 4 - Mike Harfoot)
14:50	Unexpected dynamics (including canard explosion) of fast-slow bitrophic food chains (Bob Kooi)
15:10	Population dynamics with multiple limiting nutrients: Life history mediated effects (Romain Richard)
15:30	Dynamic energy budgets in individual based population models: cross species test and application (André Gergs)
15:50	A multi-agent approach to couple physiological and foraging models: Optimization of vulture foraging strategies (Dorra Louati)
16:10	Tea & posters
19:00	Networking Dinner at Polaria Aquarium

Friday, June 02

09:00 Arrival and coffee chair 6: Jean-Christophe Poggiale 09:15 **Biodiversity in the context of DEB theory (**Keynote 5 - Sebastiaan Kooijman) 10:00 The altricial-precocial spectrum of avian development according to DEB theory (Carlos Teixeira) 10:20 Physiological performances of Southern Ocean key species (Charlène Guillaumot) 10:40 Bayesian parameter estimation for Dynamic Energy Budget models of albatross growth (Philipp Boersch-Supan) 11:00 Coffee, tea break 11:30 Evolution and regulation of Symtrophic Symbiosis (Roger Nisbet) 11:50 Biologically mediated and abiotic mechanisms for light enhanced calcification and the cost of carbonates deposition in corals (Giovanni Galli) 12:10 Discussion / Questions 12:30 Lunch chair 7: Bob Kooi 14:00 DEB for any species: making the most of existing knowledge (Jorn Bruggeman) 14:20 Demand driven reserve allocation: can the reproductive buffer modulate kappa? (Erik Muller) Energy-limited tolerance to multiple stressors in the purple-tipped sea urchin, 14:40 Psammechinus miliaris (Rose Stainthorp) 15:00 Damage-related protein turnover explains inter-specific patterns of maintenance rate in the DEB theory (Olivier Maury) 15:20 Physics of metabolic organization (Marko Jusup) 15:40 Tea & Posters 16:10 conclusions 16:40 end