Wednesday, June 14th, 2023

08:30	09:00	Welcome coffee
09:00	09:20	Opening: Romain Lavaud, Megan La Peyre, *LSU AgCenter (USA)*
09:20	10:20	**Session 2: Theoretical and methodological developments** Keynote: **Pr. Tânia Sousa**, *University of Lisbon (Portugal)* **A general unified theory for organisms and economies**
10:20	10:40	**L.M. Bradley**, *Emory University (USA)* A not-so balanced diet: Merging DEB and Ecological Stoichiometry theories to understand non-static nutrient dynamics
10:40	11:10	Break
11:10	11:30	**Ferdinand Pfab**, *University of California, Santa Barbara (USA)* Timescale separation and models of symbiosis: state space reduction, multiple attractors and initialization
11:30	11:50	**Marine Vandenberghe**, *CNRS (France)* A novel Dynamic Energy Budget model for a deep-sea bivalve and its symbionts: the abj-farming model
11:50	12:10	**Evridiki Klagkou**, *University of Crete (Greece)* Dynamic Energy Budget approach for modeling growth and reproduction of Neotropical stink bugs
12:10	13:40	Lunch
13:40	14:00	**Irene Moro Martínez**, *IRFAP-INIA (Spain)* Assessing between-individual variability in bioenergetics modelling: Opportunities, challenges, and potential applications
14:00	14:20	**Nina Marn**, *Ruđer Bošković Institute (Croatia)* Energetics of bird reproduction and egg-laying: case study of bobwhite quail
14:20	14:40	**Tiago Domingos**, *Instituto Superior Técnico (Portugal)* Combining process-based with data driven models for the minimisation of greenhouse gas emissions of beef cattle
14:40	15:00	**Diogo Oliveira**, *Instituto Superior Técnico (Portugal)* Explaining individual variability in Mertolenga cattle with Dynamic Energy Budget theory
15:00	15:30	Break
15:30	15:50	**Lola De Cubber**, *IRD (France)* A generalized Dynamic Energy Budget model including 3D shape changes for modeling small pelagic fish growth
15:50	16:10	**Dina Lika**, *University of Crete (Greece)* Determining energy-limited tolerance to acute thermal stress in farmed finfish
16:10	16:20	General discussion
16:20	18:20	**Poster Session / Reception**

Thursday, June 15th, 2023

09:00	10:00	**Session 1: Populations and Ecosystems in a Changing Climate** Keynote: **Dr. David Civitello**, *Emory University (USA)* **A multiscale DEB perspective on infectious disease outbreaks and control**
10:00	10:20	**Konrad Matyja**, *Wrocław University of Science and Technology (Poland)* Dynamic Energy Budget model for *E. coli* growth in carbon and nitrogen limitation conditions
10:20	10:40	**Maria Isabel Garcia-Rojas**, *University of Winnipeg (Canada)* Nutritious vs. junk food in the Arctic ocean: Population impacts of environmental change in Arctic marine mammals
10:40	11:10	Break
11:10	11:30	**Laure Régnier-Brisson**, *Ifremer (France)* Reconstructing the growth and feeding of the scallop *Mimachlamys varia* : a DEB inversion
11:30	11:50	**Nina Marn**, *Ruđer Bošković Institute (Croatia)* Understanding interspecific competition of native and invasive crayfish using Dynamic Energy Budgets
11:50	12:10	**Urban Dajčman**, *National Institute of Biology (Slovenia)* Integrating DEB models and NicheMapR to explore species coexistence in lacertid lizards
12:10	13:40	Lunch
13:40	14:40	**Session 4: Traits, evolution, and biodiversity** Keynote: **Pr. Christopher Barnes**, *Washington University (USA)* **Applying and Adapting DEB to Humans at Work**
14:40	15:00	**Starrlight Augustine**, *Instituto Superior Técnico (Portugal)* Dynamic Energy Budget theory based invariants of life histories
15:00	15:30	Break
15:30	15:50	**Mélanie Debelgarric**, *UPPA-INRAE (France)* An application of DEB theory to understand the co-variation of life-history traits in freshwater populations
15:50	16:10	**Charlotte Récapet**, *Université de Pau et des Pays de l'Adour (France)* Age-related changes in evolutionary potential can be predicted through DEB theory
16:10	16:30	**Scott Binger**, *Southern Illinois University (USA)* Using host nutrient limitation to model parasite production and link parasite-host life histories
16:30	16:50	**Bas Kooijman**, *VU University Amsterdam (Netherlands)* Remarkable combinations of data types in the AmP collection
16:50	17:00	General discussion
17:00	18:30	Free time, walk on campus
18:30	21:30	Gala dinner

Friday, June 16th, 2023

09:00	10:00	**Session 3: Effects of anthropogenic and environmental stressors** Keynote: **Dr. Dave Spurgeon**, *UK Center for Ecology & Hydrology (UK)* **Ecotoxicology and TK-TD models: What lies beneath**
10:00	10:20	**Cheryl Murphy**, *Michigan State University (USA)* Interpreting the toxicity of complex mixtures for ecological risk assessment using Dynamic Energy Budgets
10:20	10:50	Break
10:50	11:10	**Starrlight Augustine**, *Instituto Superior Técnico (Portugal)* The bobwhite quail exposed to fluopyram: analysis of standard sub-lethal bird OECD data with the DEB model
11:10	11:30	**Tyler Firkus**, *University of Wisconsin (USA)* The consequences of sea lamprey parasitism on lake trout energy budgets
11:30	11:50	**Roger Nisbet**, *University of California, Santa Barbara (USA)* DEBlipid: A model allowing multiple life history choices in fluctuating environments
11:50	12:10	**Gonçalo Marques**, *Instituto Superior Técnico (Portugal)* Estimating methane emissions in fattening trials of crossbred Angus-Aberdeen young-bulls
12:10	13:40	Lunch
13:40	14:00	**Roger Nisbet**, *University of California, Santa Barbara (USA)* DEB models of coral bleaching.
14:00	14:20	**Halle Berger**, *University of Connecticut (USA)* Assessing vulnerability of the U.S. Atlantic sea scallop to ocean acidification and warming: A DEB modeling approach
14:20	14:40	**Teresa Schwemmer**, *Stony Brook University (USA)* Energetic mechanisms of hypoxia impacts on early life stages of an estuarine fish
14:40	15:00	**Romain Lavaud**, LS*U AgCenter (USA)* Modeling oyster reef population dynamics
15:00	15:10	General discussion
15:10	15:20	Conclusion and closing: Romain Lavaud