

ILEE projects in 2018

1. Ongoing projects

During 2018, 46 projects were already running (in alphabetical order):

| Project name | Sponsor | Promoter | From | To |
|---|----------|-------------------------------|------|------|
| Accord cadre analyse des services écosystémiques en lien avec l'analyse du sol (TerrEye) | na | N. Dendoncker | 2016 | 2020 |
| AMMIB-prolongation: Application des Méthodes de Méta-barcoding aux Inventaires Biologiques | Wallonie | K. Van Doninck, Marescaux, J. | 2017 | 2018 |
| Aqua Tox-Bénin | ARES | P. Kestemont | 2016 | 2018 |
| ASSESS (Améliorer les Statistiques de décès pour mieux Suivre les Évolutions Sanitaires dans la région de Dakar, Senegal) | ARES | C. Linard, A. Gadiaga | 2016 | 2021 |
| Bdelloid Rotifers: "another Gift from Nature" | FWB | K. Van Doninck, B. Hespels | 2014 | 2019 |
| BRAIN-BELBEES: Integrative analysis of Belgian wild bee decline to adapt mitigation management policy | Belspo | N. Dendoncker | 2016 | 2018 |
| BRAIN-SAFRED: Saving Freshwater Biodiversity Research Data | Belspo | P. Kestemont | 2016 | 2018 |
| Breaking bad? Genomic evolution and protective mechanisms in asexual bdelloid rotifers exposed to charged particle beams. | na | K. Van Doninck | 2016 | 2018 |
| Caractérisation hydrochimique des aquifères calcaires frasniens | na | V. Hallet & A. Cotton | 2017 | 2021 |
| Carte géologique: Programme de révision de la carte géologique de Wallonie | Wallonie | J. Yans | 2017 | 2018 |
| Cellule d'appui aux indications géographiques (AOP-IGP) : Produits du terroir | Wallonie | I. Parmentier | 2016 | 2019 |
| Characterization of the molecular mechanisms controlling negative chemotaxis to copper in <i>Caulobacter crescentus</i> | FNRS | J.-Y. Matroule & G. Louis | 2016 | 2020 |
| Coexistence, Stress, and Aquatic ecosystem functioning | FNRS | F. De Laender | 2016 | 2020 |
| Coordination CIE: Coordination du groupe eaux souterraines au sein de la Commission Internationale de l'Escaut (CIE) | na | V. Hallet | 2016 | 2018 |
| Copper homeostasis regulation during different development stages of three alpha-proteobacteria (<i>Renewal</i>) | FNRS | J.-Y. Matroule | 2017 | 2018 |
| De la Fertilité des sols à la Santé de la terre. | FNRS | N. Dendoncker & L. Richelle | 2016 | 2018 |

| Project name | Sponsor | Promoter | From | To |
|--|------------------|------------------------------------|-------------|-----------|
| Des espèces aquatiques sous pression : le castor et la loutre en Wallonie au cours des 18e et 19e siècles | Unamur CERUNA | I. Parmentier | 2016 | 2018 |
| Development of ecological archetypes and models for use in chemical risk assessment | na | F. De Laender & S. van den Berg | 2016 | |
| Developmental plasticity of behavioral traits in the self-fertilizing fish <i>Kryptolebias marmoratus</i> : an integrative approach | FNRS | F. Silvestre & A. Carion | 2016 | 2019 |
| DIADeM: Development of an Integrated Approach for the Diagnosis of Water quality in the Meuse | EU | P. Kestemont & F. De Laender | 2017 | 2019 |
| DISASTERS: Local Adaptation, Resilience & Interpretation of socio-natural hazards, and environment management in the Philippines | ARES | I. Parmentier | 2016 | 2019 |
| DIVERSIFY: Exploring the biological and socio-economic potential of new/emerging candidate fish species for the expansion of the European aquaculture industry | EU | P. Kestemont | 2016 | 2018 |
| Effects of environmental stress on developmental plasticity of behavioural traits in the mangrove <i>rivulus</i> | FNRS | F. Silvestre | 2017 | 2018 |
| Evaluation des performances d'un sel de phosphate d'ammonium dans le domaine de la nutrition aquacole | na | P. Kestemont & R. Mandiki | 2017 | 2018 |
| Exploring different ways to measure " the environment " for a better qualification and quantification of its impacts on human migration. A case study in the Philippines | na | S. Henry | 2016 | 2020 |
| FEAMP smolts: Optimisation des performances des smolts dans le bassin mosan | EU | P. Kestemont & R. Mandiki | 2016 | 2019 |
| GIRE-SAVA: Gestion Intégrée des Ressources en Eau de la région SAVA, Madagascar | ARES | F. De Laender | 2017 | 2021 |
| Implementation of transport proteins for integration in composite nanomaterials | FWB | É. Perpete & M. Lopes Rodrigues | 2016 | 2019 |
| LIFE4FISH: Downstream fish migration along the Low Meuse River | EU | P. Kestemont | 2017 | 2022 |
| Migration suite à un typhon aux philippines: enrichir la mesure de l'utilité d'un lieu par les émotions | | S. Henry, E. Henriet | 2015 | 2020 |
| MIGRoBe - Défis socio-culturels de la migration européenne. Le cas des roumains en Belgique | FWB | S. Henry | 2017 | 2019 |
| Myrmecophile metacommunities: integrating dispersal and food web interactions into spatial food-web networks | FNRS | F. De Laender | 2017 | 2020 |

| Project name | Sponsor | Promoter | From | To |
|--|----------------|---------------------------------------|-------------|-----------|
| Natural bio-active plant products for environmental friendly aquaculture production in the Mekong Delta | ARES | P. Kestemont | 2015 | 2020 |
| Ouvrage collectif - Les collectifs agricoles alternatifs : entre idéalisation et réalisation | na | D. Van Dam | 2016 | 2018 |
| Phenotypic plasticity without genetic diversity | FNRS | F. Silvestre | 2016 | 2018 |
| PRD - Augmentation de la productivité des élevages caprins du Nord du Maroc par l'amélioration de la conduite de la nutrition, de la reproduction et de la santé | ARES | D. Van Dam | 2016 | 2018 |
| Predicting the effects of climate change on C sequestration by heathlands : the role of multi-trophic interactions between soil organisms | FWB | F. De Laender & W. Reyns | 2016 | 2019 |
| REACT (Remote Sensing for Epidemiology in African CiTies) | Belspo | C. Linard, S. Dujardin | 2016 | 2020 |
| RespirIT: Assessing spatio-temporal relationships between respiratory health and biodiversity using individual wearable technology | Belspo | N. Dendoncker, C. Linard, S. Dujardin | 2016 | 2019 |
| RHEA: Rotifers Highlight the Evolution of Asexuals: the mechanisms of genome evolution in the absence of meiosis | EU | K. Van Doninck | 2017 | 2022 |
| RISE - Rotifer In SpacE | ESA | K. Van Doninck, B. Hespeels | 2016 | 2020 |
| Saumon 2017: Réhabilitation du saumon atlantique dans le bassin de la Meuse | Wallonie | P. Kestemont & R. Mandiki | 2017 | 2018 |
| SMARTBOX: SMARTBOX | Wallonie | P. Van Cutsem | 2016 | 2018 |
| STREAM: Développement de solutions d'équipement dans le domaine du monitoring hydrogéologique | Wallonie | V. Hallet & A. Poulain | 2017 | 2019 |
| The melatonin hormone in fish, a crucial link between light environment, stress and immunity | FNRS | P. Kestemont & S. Baekelandt | 2016 | 2020 |
| Understanding copper- and silver-based antimicrobials and their potential in space applications | na | J.-Y. Matroule | 2017 | 2021 |

2. New projects

Nine new projects by members of ILEE were launched in the course of 2018.

| Project name | Sponsor | Promoter | From | To |
|--|-------------------|---------------------------|-------------|-----------|
| BEST(Bdelloid Extreme Stress Tolerance): Bdelloid rotifers as a model organism to understand extreme stress tolerance | FNRS | K. Van Doninck, R. Arora | 2018 | 2020 |
| BIMWAM (Building up an Integrated Methodology for Water resources Assessment and Management in urban coastal areas) | ARES | V. Hallet | 2018 | 2022 |
| BIOTES 2018: Convention de collaboration dans le cadre du réseau d'analyses BIOTES et des projets de recherche "Microplast" et "STEP-PE": prélèvement de poissons par pêches électriques | ISSeP | P. Kestemont | 2018 | 2018 |
| Bouquet cartographique wallon | na | I. Parmentier | 2018 | ? |
| DIVERCE - Does Intraspecific Variability modulate the impact of EnviRonmental Change on biodiversity and Ecosystem function? | FWB | F. De Laender | 2018 | 2023 |
| IMicroNet: Structure and functionality of the skin microbiota in rainbow trout (Oncorhynchus mykiss) under various immune status | FNRS | P. Kestemont | 2018 | 2019 |
| Improving the ecological relevance of metals risk assessment | na | F. De Laender | 2018 | 2021 |
| Patrimoine géologique et pédologique en Province de Namur: sentiers géopédologiques de Gedinne et de Nismes | Province de Namur | V. Hallet | 2018 | 2018 |
| The epigenetic origin of behavioral traits variability in a self-fertilizing fish : the mangrove rivulus | FNRS | F. Silvestre, V. Chapelle | 2018 | 2020 |