

Within the frame of the Ambition project

- Online conference for ECODEP opening

August 26-29, 2020

Opening workshop, 5 halfday sessions on each task

-2 conferences will be organized at MIR (<https://iea.u-cergy.fr/fr/presentation/mir.html>) at the beginning and at the end of the project to work out a dynamic of the group and one conference will be coorganized with MMB Chair at Ecole Polytechnique.

- A regular seminar will be organized in the frame of the project, we plan a monthly workshop.

- Doctoral training will include a master-level course.

- Internships at the master level will be proposed within the project

2 two-years Postdocs are planned, and first :

A Postdoc position will open on July 1st,

For the period : October 1st 2020-2022

The scientific events organized in the Eco-DEP project will be fruitful for the doctoral and post-doctoral participants.

Master level lectures in the master of mathematics of University Cergy Pontoise (Mars 2021, 2022, 2023). Selected Master students in the project will attend the course.

Items of the course will include :

- Taylor's laws and self-normalised expressions
- Models of population dynamics
- Causality and parcimonious modelling for time series with covariates
- Time series in population dynamics ; use of integer valued time series models
- Isotonic models and estimation ; application to global warming

Internships will be proposed in the various sites associated with the project, including Cergy and the other sites associated with the project.

Various companies, deeply involved in sustainable development, will support the project Eco-Dep, cite :

<https://www.biotope.fr/en/> Biotope, biodiversity and ecosystem specialists. We plan to collaborate with this company on several questions as :

-the forecast of survival of endangered orchid species in Yunnan and Mozambique.

-the problem of avoiding that bats suffer too much from the rotation of the blades of wind turbines; for this it will be necessary to optimize their operating hours while sparing this protected species.