

Le Corps professoral de  
Gembloux Agro-Bio Tech - Université de Liège vous prie  
de lui faire l'honneur d'assister à la défense publique de la dissertation originale que

**Madame BOERAEVE Fanny,**

**Titulaire d'un diplôme de master en sciences environnementales,**

présentera en vue de l'obtention du grade et du diplôme de

**DOCTEUR EN SCIENCES AGRONOMIQUES ET INGENIERIE BIOLOGIQUE,**

le 11 décembre 2018, à 15h30 précises (personne ne sera admis après cette heure),

en l'auditorium CG (Chimie Générale - Bât. 8),

Passage des Déportés, 2, à 5030 GEMBLoux.

Cette dissertation originale a pour titre :

« How can integrated ecosystem service valuation help understand agroecological transition ? ».

**Le jury est composé comme suit :**

Président : Prof. B. BODSON, Professeur ordinaire,

Membres : Prof. M. DUFRENE (Promoteur), Prof. N. DENDONCKER (Copromoteur - UNamur), Prof. P. STASSART, Prof. K. MARECHAL, Dr D. STILMANT (CRA-W), Dr C. SIRAMI (INRA Toulouse, France), Dr P. JEANNERET (Agroscope, Suisse), Dr S. JACOBS (INBO).

## Summary

Agroecology is increasingly advocated as a solution to current challenges faced by conventional farming systems. Agroecology goes beyond the suggestion of alternative agricultural practices. It also questions the whole food system, including the stakeholders involved and their interdependencies. By suggesting such a holistic transition, agroecology questions current research practices. Such an approach to agriculture requires new scientific tools which allow the integration of multiple values-domains, account for the system complexity and the underlying uncertainties. Integrated ecosystem service valuations pretend to offer such tool. However, to date, few studies report on the implementation of integrated ecosystem service valuations to real-life contexts of agroecological transitions. The present work aims at fulfilling this gap by applying the tool to three real-life farm examples which have encompassed an agroecological transition. Both a biophysical ecosystem service assessment, based on field measurements and a socio-cultural ecosystem service valuation, based on a focus group and questionnaires, are carried out on the sampled agroecological farms and their neighbor's conventional farms. The aim is to analyze these agroecological farming systems through the lens of the integrated ecosystem service valuation tool and to share lessons learned in a reflexive posture.