

## IP News & Highlights



### A global synthesis of knowledge on biodiversity and climate – What does the new work program of IPBES promise?

**Berlin | May 28th, 2019.**

NeFo, the German science-policy interface for biodiversity research discussed on varied topics during its workshop. Not only the results and resolutions of the 7<sup>th</sup> plenary session in Paris [see also Newsletter No. 01 (05/2019)] were focused but also the challenges for IPBES and IPCC.

Prof Dr Bernd Hansjürgens also attended the event with his keynote lecture on “From global assessments to local impact: socio-economic processes in Germany.



Photo by IISD / [enb.iisd.org/ipbes/ipbes5](http://enb.iisd.org/ipbes/ipbes5)

### Mitigating biodiversity impacts: practitioners' views from Germany and Sweden

International NeFo-Workshop, in cooperation with ZFM Ökoflächenagentur, Ecogain Sweden, SveMin and Biodiversity in Good Company: Mitigating biodiversity impacts: practitioners' views from Germany and Sweden

**Dresden | May 20<sup>th</sup> – 21<sup>st</sup>, 2019**

During the one-and-half day event, scientific findings and standards on environmental impact mitigation (with focus on the German impact mitigation regulation/“Eingriffsregelung”), as well as practical experiences of companies in the energy and extractives sector from Germany and Sweden have been discussed. The event not only offered the opportunity for discussions between representatives of German companies\* and a delegation of Swedish business representatives\*\* but also enabled an excursion (in cooperation with the ZFM), which was especially focused on the transfer of practical results, with visits to several offset sites in the state of Saxony.

\* Ullrich Höhna, LEAG (tbc), Pascal Bunk, Knauf Gips (tbc), Heidelberg Cement (tbc)

\*\*LKAB, Boliden, Zinkgruvan, Björkdalsgruvan





## Invited talk – Biogeography of soil microbes: from knowledge gathering to operational quality diagnosis

Halle | May 16<sup>th</sup>, 2019

The department of Soil Ecology organized an invited talk given by Dr. Nicolas Chemidlin Prévost-Bouré, Dr. Battle Karimi and Dr. Sébastien Terrat. They are the authors of the “Atlas français des Bactéries du sol” which describes the latest advances in research on the microbiological heritage of French soils, its determinism and the functions it carries.

The work of the Agricultural Ecology Research Unit at INRA Dijon, which investigates the microbial ecology of soils, shows an inventory of bacterial communities in French soils. To this end, the most advanced DNA sequencing techniques have been used to produce this atlas. This atlas gives an overview of the bacterial communities and their importance for soil quality and fertility. It is a unique work, both in terms of the subject matter covered and in terms of the original representations that allow us to understand the soil bacterial world. This atlas consists of six parts:

- Explanation of the most important scientific and technical generalities
- Methodological description including molecular and bioinformatics methods for microbiological data collection
- A portfolio of photos of bacterial strains isolated from the soil
- Presentation of the nationwide distribution of global microbial indicators (microbial molecular biomass, bacterial diversity, bacterial community structure and networks of biotic interactions between bacterial taxa)
- Bacterial taxa
- Definition of the most important habitats for soil bacteria in France

## Call for papers

### FONA – Research Initiative for the Conservation of Biodiversity

As contribution to the new FONA, the first call for funding on the topic „Appreciation and Safeguarding of Biodiversity in Politics, Business and Society“ was launched on June 6th, 2019.

The application deadline for a one-year period for the development of an inter- and transdisciplinary project proposal (co-design and co-production) is September 13th, 2019.

<https://www.fona.de/de/erste-bekanntmachung-zur-%E2%80%9Eforschungsinitiative-zum-erhalt-der-artenvielfalt%22>

## Research Highlights

### WP3: Assessing and modeling multifunctional landscapes

Zabel, F., Delzeit, R., Schneider, J., **Seppelt, R.**, Mauser, W., **Václavík, T.** (2019). Global impacts of future cropland expansion and intensification on agricultural markets and biodiversity. *Nature Communication*. <https://doi.org/10.1038/s41467-019-10775-z>

**Strauch, M., Cord, A. F., Pätzold, C., Lautenbach, S., Kaim, A., Schweitzer, C., Seppelt, R., Volk, M.** (2019). Constraints in multi-objective optimization of land use allocation – Repair or penalize? *Environmental Modelling & Software*. (118) 241-251. <https://doi.org/10.1016/j.envsoft.2019.05.003>

### WP4: Informing and designing policies for sustainable landscapes

Díaz-Reviriego, I., Turnhout, E., & **Beck, S.** (2019). Participation and inclusiveness in the Intergovernmental Science–Policy Platform on Biodiversity and Ecosystem Services. *Nature Sustainability*, 2, 457-464. <https://doi.org/10.1038/s41893-019-0290-6>

**Bernd Hansjürgens, Christoph Schröter-Schlaack, Josef Settele** (2019). Zur ökonomischen Bedeutung der Insekten und ihrer Ökosystemleistungen. *Natur und Landschaft* 6/7. DOI: [10.17433/6.2019.50153695.230-235](https://doi.org/10.17433/6.2019.50153695.230-235)

## Books



**Atlas français des bactéries du sol** (Edited by: **Battle Karimi**, **Nicolas Chemidlin-Prévost Bouré**, **Samuel Dequiedt**, **Sébastien Terrat**, **Lionel Ranjard**).

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