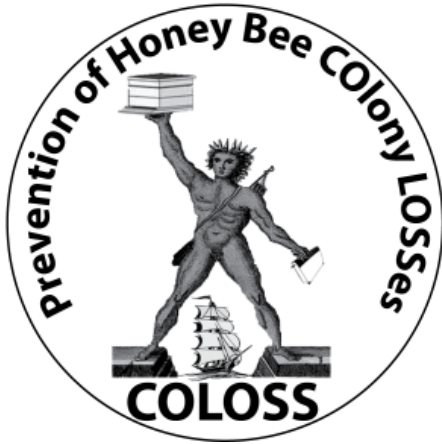


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**UNIVERSITÄT
BERN**

B-RAP workshop

Proceedings

Gothenburg, Sweden
6th – 7th February 2019

B-RAP workshop

Topics

- Principles for successful extension: Approaches to bring research knowledge and practice closer together
- Joint meeting with Nordic-Baltic beekeeper associations, researchers and advisers
- Projects regarding funding of network of advisory services
- Presentations

When

- 6th – 7th February 2019

Where

- Clarion Hotel Post
Drottningtorget 10, 411 03 Gothenburg, Sweden

Registration fee

- Registration fee: **40 €**
(incl. lunches and a social diner, payable on site)
- There will be no reimbursement for travel/accommodation

Travel

- By **airplane** to Gothenburg airport (Göteborg Landvetter Airport) and then bus to the city centre.
- The airport is situated around 25 km from the city centre, and it takes 20 minutes to travel by Flygbuss airport coach between the airport and Gothenburg centre. The **bus** terminal there (Nils Ericson Terminalen) is around 300 meters from the Clarion Hotel Post.
The price for a single journey with the bus is 99 SEK.
See flygbussarna.se for information about timetables.
- It is also possible to go by **taxi** from the airport to the city centre. The price is between 290 and 445 SEK depending on the taxi company and time of day.

ORGANIZER CONTACTS	
Lotta Fabricius Kristiansen	Preben Kristiansen
Apinordica AB Tel: +46 70 735 28 58 e-mail: lotta.fabricius@apinordica.se	Swedish Board of Agriculture Tel: +46 708 90 17 32 e-mail: preben.kristiansen@jordbruksverket.se

Schedule

6th February 2019

Time	Session 1
13:00-13:30	Welcome, presentation of participants and the program for the workshop
13:30-15:00	Frank Vanclay: Principles for successful extension – bringing research knowledge into practice
15:00-15:30	<i>Coffee/snack break</i>
Session 2	
15:30-17:00	Discussion about principles for extension
17:00-18:00	Preparation and planning for session 3 of the workshop
19:00	Social dinner

7th February 2019

Time	Session 3
10:00-12:00	Joint workshop about extension and structures of information systems together with the participants in the Nordic-Baltic bee council meeting. The workshop will be facilitated by Magnus Ljung from the Swedish University of Agricultural Sciences
12:00-13:00	Lunch
Session 4	
13:00-15:00	Work with COST-application regarding cross-border networking
15:00-15.30	<i>Coffee/snack break</i>
15:30-16:15	Presentations. Adekola Popoola: Potential Role of Agro-Forestry in Honey Production- a Case Study of Federal College of Forestry. Per Angelstam and Mariia Fedoriak: Beekeeping as a social innovation to navigate towards sustainable rural landscapes
16:15-17:00	Planning of the future work and closure of the workshop

Abstracts

Social principles for agricultural extension to assist in the promotion of natural resource management

Frank Vanclay

Department of Cultural Geography Urban & Regional Studies Institute
Faculty of Spatial Sciences, University of Groningen
PO Box 800, 9700 AV Groningen, The Netherlands

An understanding of social issues, the social nature of farming, and the social basis of adoption is needed if agricultural extension is to be effective in addressing natural resource management issues, and in promoting sustainability in its triple bottom line conceptualisation. Twenty-seven principles are presented here, with the key principles being: awareness of farming as a social activity; recognition of the social diversity of farmers and the social drivers in agriculture; and the socio-cultural basis of adoption.

Beekeeping as a social innovation to navigate towards sustainable rural landscapes

(1) Per Angelstam (2) Mariia Fedoriak

(1) Swedish University of Agricultural Sciences, School for Forest Management,
PO Box 43, SE 73921 Skinnskatteberg, Sweden

(2) Chernivtsi National University, Department of Ecology and Biomonitoring, 2
Kotsyubynski street, Chernivtsi, 58029, Ukraine.

The desired range of benefits from rural landscapes is increasing, and this causes tensions among different user groups as well as between rural and urban settings. Coping with this requires empowered and collaborating rural stakeholders at multiple levels of stewardship, as well as researchers to who co-produce evidence-based knowledge about states and trends of both material and immaterial benefits from landscapes. The necessary subsequent collective action in local communities, which once was widespread in traditional landscape stewardship systems, is weakened by the combined effects of rural decline and urbanisation. It is therefore crucial to identify remaining fragments of collective action. Bees are important providers of provisioning ecosystem services (e.g., honey, wax, medicine), pollination, cultural ecosystem services, and beekeeping requires multiple skills and collaboration. Thus, beekeeping can be viewed as a social innovation that contributes to empowerment of rural stakeholders through collective action. The diversity of rural development contexts on the European continent offers opportunity for innovative comparative studies of the factors affecting bee colony survival, of the benefits of bees, and also the role of beekeeping as a social factor that strengthens the opportunity to highlight bees as producers of multiple ecosystem services in particular and rural development in general. As complement to the COLOSS survey carried out in Ukraine since 2015, we made a horizon scanning of beekeepers' perceived barriers and bridges by strategic selection of landscapes in the steep biophysical and socio-economic gradient in Chernivtsi region in Ukraine. The results suggest that comparative studies that include different landscapes and countries representing the European continent's gradients in both ecological and social systems offer unique opportunities to explore factors that beekeepers perceive are affecting the viability of bees, bee products and other ecosystem services. Such benefits can be linked to landscape properties that are beneficial for honey bees and beekeeping, as well as for human well-being and rural development.

Fedoriak, M.M., Angelstam, P.K., Kulmanov, O.L., Tymochko, L.I., Rudenko, S.S., Volkov, R.S. (2019) Ukraine is moving forward from 'Undiscovered honey land' to active participation in international monitoring of honey bee colony losses. *BeeWorld*, in press
