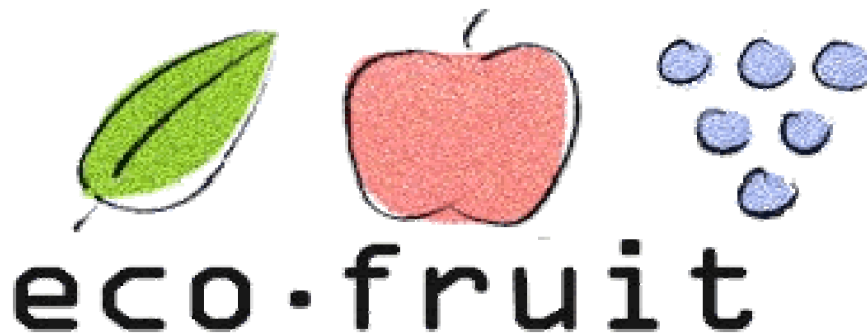


Programme



19th International Conference on Organic Fruit-Growing

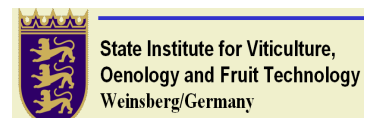
Patronage: IFOAM EU Group



Baden-Württemberg
MINISTERIUM FÜR LÄNDLICHEN RAUM
UND VERBRAUCHERSCHUTZ



UNIVERSITY OF
HOHENHEIM



Monday, 17th February 2020

10.00 – 10.30 **Welcome addresses**
Prof. Dr. Stephan Dabbert, President of the University of Hohenheim
Prof. Dr. Ralf Voegele, Dean of the University of Hohenheim
Friedlinde Gurr-Hirsch, Secretary of State, Ministry of Rural Affairs and
Consumer Protection Baden-Wuerttemberg
Isabella Lang, IFOAM EU Group
Nikolaus Glocker, FOEKO e.V

Workshop in Plenum

Situation of the registration of organic Plant Protection Products in Europe

Chair: I. Lang

10:30 – 10:50 Current situation for the registration for biocontrol substances in the EU
D. Deserio, DG Sante Pesticides Unit

10:50 – 11:00 Green new deal and organic plant health care in Europe
I. Lang, IFOAM EU Group

11:00 – 11:20 Short statements

- Ensure the availability of „organic“ plant protection products with small market for practice: New ways and possibilities
J. Kienzle, FOEKO e.V.
- Current situation and challenges with the registration of botanicals
I. Kleeberg, Trifolio-M GmbH, D-Lahnau
- Current situation and challenges with the registration of mineral products
F. Volk, Biofa AG, D-Muensingen

11:20 – 12:00 Discussion

12:00 – 13:00 Lunch break

Session Breeding and Performance of Pome Fruit Varieties

Chair: B. Pfeiffer

13:00 – 13:15 Challenges in apple breeding
M. Kellerhals, Agroscope (CH)

13:15 – 13:30 Influencing factors for the further expansion of organic apple cultivation and breeding
H. Wolter, University Oldenburg (D)

13:30 – 13:45 Holistic Consideration of the Inheritance and Use of the Potential of On-Farm Selection Shown on the Example of Poma Culta Apple Breeding
N. Bolliger, Pomaculta (CH)

Monday, 17th February 2020

- 13:45 – 13:50 "Crowd breeding" of Danish apple cultivars
M. Korsgaard, University Copenhagen (DK)
- 13:50 – 13:55 Selection from old local varieties as expanding gene resource for apple breeding
A. S. Zeiser, LVWO Weinsberg (D)
- 13:55 – 14:30 Discussion

Session Rootstocks for Pome Fruit Varieties

Chair: M. Friedli

- 14:30 – 14:45 Comparison of Rootstocks Geneva 16, M9 and CG11 under organic cultivation at the LVWO Weinsberg – actualized
Barbara Pfeiffer, LVWO Weinsberg (D)
- 14:30 – 14:35 Influence of Geneva rootstocks on vegetative and generative characteristics of the apple cultivar 'Topaz' in a replanting orchard according to organic production conditions in Eastern Austria
Andreas Spornberger, University Vienna (A)
- 14:35 – 14:40 Performance of pear trees of the cv. 'Uta' on their own roots propagated from green cuttings in a long term field trial under organic production conditions in Eastern Austria
Andreas Spornberger, University Vienna (A)
- 14:40 – 15:00 Discussion
- 15:00 – 15:30 Coffee break

Session Soil Management

Chair: S. Zikeli

- 15:30 – 15:45 Improving fertilisation strategies in organic apple cultivation
Birgit Lepp, University of Hohenheim
- 15:45 – 15:50 The impact of different organic fertilizers on the soil nematode assemblages in an organic apple orchard
Eligio Malusa, RIH Skierniewice (PL)
- 15:50 – 15:55 Soil nutrient availability of new organic fertilizers formulations
Eligio Malusa, RIH Skierniewice (PL)
- 15:55 – 16:00 Fertilization of apple trees with organic fertilizers "Keratin" and "Lumbreco" in Bulgaria - preliminary results
V. Dzhuvinov, Fruit Growing Institute Plovdiv (BG)
- 16:00 – 16:05 Organic apricot production: Towards an ecologically intensive orchard self-sufficient in inputs: Focus on use of AMF for cultivation of rootstocks
S. Masquelier, INOCULUMplus (F)
- 16:05 – 16:20 Discussion

Monday, 17th February 2020

Session Physical Barriers

Chair: M. Kelderer

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| 16:20 – 16:35 | Physical protection barriers against pests and diseases, a multi crop experience
<i>T. Holtz, RC Laimburg (I)</i> |
| 16:35 – 16:40 | Exclusion netting row covers in organic apple orchards: implications regarding practicability, pest organisms and disease control
<i>M. Schluchter, KOB Bavendorf (D)</i> |
| 16:40 – 16:45 | Testing the effect of a weather protection on the apple production regarding disease and pest damages
<i>C. Boutry, FIBL (CH)</i> |
| 16:45 – 17:00 | Discussion |

Workshop Session

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|---------------|---|
| 17:15 – 18:30 | WS 1: Project LIVESEED: Opportunities for a European participatory organic fruit breeders network
<i>Responsible Kostas Koutis, AEGILOPS</i> |
| | WS 2: Soil Management (projects Domino and Excalibur)
<i>Responsible E. Malusa/S. Zikeli</i> |
| 18:30 | Dinner |
| After dinner | Meeting of IFOAM Fruit Specialist Group |

Tuesday, 18th February 2020

Session Pest Management in Pome Fruit Part I

Chair: J. Kienzle

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|-------------|---|
| 8:30 – 8:45 | Three years experience of apple sawfly control with entomopathogenic Nematodes
<i>J. Kienzle, Uni Hohenheim (D)</i> |
| 8:45 – 8:50 | Mass trapping of the apple sawfly <i>Hoplocampa testudinea</i>
<i>H. Helsen, University of Wageningen</i> |
| 8:50 – 9:00 | Discussion Sawfly Control |
| 9:00 – 9:15 | The project ProgRAMM: Monitoring and mapping of invasive fruit pest insects
<i>O. Zimmermann, LTZ Karlsruhe (D)</i> |
| 9:15 – 9:20 | Stink bugs, pear scale and medfly: Distribution maps of invasive fruit pests in Germany
<i>A. Reissig, LTZ Karlsruhe (D)</i> |

Tuesday, 18th February 2020

- 9:20 – 9:25 Biology, abundance and control strategy of *Pentatoma rufipes* L. (Hemiptera, Pentatomidae) in organic pome fruit orchards in Germany
H. Alkarrat, Uni Hohenheim (D)
- 9:25 – 9:30 Is the brown marmorated stink bug parasitoid *Trissolcus japonicus* (Ashmead) already in Germany?
H. Alkarrat, Uni Hohenheim (D)
- 9:30 – 9:35 Efficacy of different entomopathogenic fungi collected in the field on bugs and codling moth
H. Alkarrat, Uni Hohenheim (D)
- 9:35 – 9:45 Discussion
- 9:45 – 10:15 Coffee break

Workshop in Plenum Control of Stink Bugs in Organic Fruit Growing *Chair: M. Kelderer*

- 10:15 – 11:00 Bioecology and spread of *Halyomorpha halys* in Europe and potential of biocontrol
Lara Maistrello, University of Modena e Reggio Emilia(I)
- 11:00 – 11:30 Management of *H.halys* in Emilia - Romagna Region, Northern Italy
Stefano Caruso, Consorzio fitosanitario di Modena - Plant Protection Service (I)
- 11:30 – 12:15 Discussion how to manage *H. halys* and other stinkbugs in organic fruit growing in the future
- 12:15 – 13:15 Lunch break
- 13:15 – 15:30 Poster Presentation

Session Pest Management in Pome Fruit Part II *Chair: P. Triloff*

- 15:30 – 15:45 Potential for antagonists and direct tools for a control strategy of *Leucoptera scitella* L. in organic apple orchards in Southern Germany
H. Alkarrat, Uni Hohenheim (D)
- 15:45 – 15:55 Discussion how to deal with this leafminer in organic fruit growing
- 15:55 – 16:00 Monitoring codling moth resistance to *Cydia pomonella* granulovirus (CpGV) in organic fruit growing in Germany
E. Fritsch, JKI Darmstadt (D)
- 16:00 – 16:05 Control of codling moth, *Cydia pomonella* with CIDETRAK® CM MEC and CIDETRAK® CM + CIDETRAK® DA MEC liquid formulations in Bulgaria
H. Kutinkova, Fruit Growing Institute, Plovdiv (BG)

Tuesday, 18th February 2020

- 16:05 – 16:10 Showcasing use of spinosad and mating disruption products for controlling leafrollers (Lepidoptera: Tortricidae) in an organic apple orchard in Latvia
J. Gailis, University of Life Sciences and Technologies, Latvia (LV)
- 16:10 – 16:15 Combination strategy of biocontrol measures and antagonists for the control of leafrollers in organic apple orchards in Germany
J. Kienzle, Uni Hohenheim (D)
- 16:15 – 16:20 First experience with *Eurytoma schreineri* in the Czech Republic
J. Ourednickova, Res. and Breed. Inst. of Pomology, Holovousy (CZ)
- 16:20 – 16:30 Discussion

Session Disease Management in Pome Fruit

Chair: *S. Buchleither*

- 16:30 – 16:45 Genetic diversity of apple leaf blotch fungus *Marssonina coronaria* in Europe
T. Oberhänsli, FIBL (CH)
- 16:45 – 17:00 Early season detection of *Marssonina coronaria* spore dispersal with selected spore traps and qPCR
P. Flury, FIBL (CH)
- 17:00 – 17:05 *Marssonina coronaria* - Fine tuning of direct regulation using acid clay
A. Bohr, KOB Bavendorf (D)
- 17:05 – 17:15 Discussion Management *Marssonina coronaria*
- 17:15 – 17:30 Approaches how to keep sooty mold on organically produced apples within limits
M. Kelderer, RC Laimburg (I)
- 17:30 – 17:45 New alternative fungicides Memcomba and Altela for apple scab control in organic orchards
R. Vavra, VÝZKUMNÝ A ŠLECHTITELSKÝ ÚSTAV OVOCNÁŘSKÝ HOLOVOUSY (CZ)
- 17:45 – 18:00 In search of alternatives to copper and sulphur
M. Kelderer, RC Laimburg (I)
- 18:00 – 18:15 Apple scab susceptibility and necessary plant protection input of “Topaz” after scab resistance breakdown
S. Buchleither, KOB Bavendorf (D)
- 18:15 – 18:20 NEU1143 F, a possible new agent to reduce the use of copper in organic pome fruit growing, three-year results from a joint research project
C. Benduhn, OEON e.V. Jork (D)
- 18:20 – 18:30 Discussion Management Sooty mold and Scab
- 18:30 Dinner
- After dinner Meeting of the Organizing Committee of ecofruit

Wednesday, 19th February 2020

Session Enhancement of Biodiversity

Chair: J. Kienzle

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|---------------|--|
| 8:30 – 8:45 | The “good” weeds or how to give value to the local flora
<i>G. Alins, IRTA, Lleida (ES)</i> |
| 8:45 – 9:00 | Perennial flower strips for pest control in organic apple orchards
<i>F. Cahenzli, FIBL Frick (CH)</i> |
| 9:00 – 9:15 | Effects of measures to enhance biodiversity in organic apple orchards in Germany
<i>A. Krismann, Uni Hohenheim (D)</i> |
| 9:15 – 9:20 | Influence of perennial interrow flower strips on the insect population in organic apple orchards in South Tyrol
<i>A.L. Haug, University of Applied Science Weihenstephan (D/I)</i> |
| 9:20 – 9:25 | Effect of introduction of mason bees on yield and quality of pear
<i>W.J.M. Cuijpers, Louis Bolk Institute (NL)</i> |
| 9:25 – 9:30 | Gaming around diversification to teach and learn about agroecology in fruit growing
<i>F. Warlop, GRAB (F)</i> |
| 9:30 – 9:45 | Is biodiversity of parasitoid Hymenoptera affected by production management in German apple orchards?
<i>A. Herz, JKI Darmstadt (D)</i> |
| 9:45 – 10:00 | Consumer liking of “Elstar” apples with slight skin defects
<i>C. Brugger, Aroma/Reich (CH)</i> |
| 10:00 – 10:15 | Discussion |
| 10:20 – 10:45 | Coffee break |

Workshop in Plenum

“How can organic fruitgrowing contribute to save bees and farmers?”

Chair: J. Kienzle

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|---------------|--|
| 10:45 – 11:15 | Introduction by Invited Speaker Martin Dermine, PAN Europe |
| 11:15 – 12:15 | Discussion |
| 12:15 – 13:15 | Lunch break |

Wednesday, 19th February 2020

Session Stone Fruit: Strategies of Organic Cultivation

Chair: F. Warlop

- 13:15 – 13:30 Regulation of the black cherry aphid in organic table cherry production
M. Friedli, FIBL, Frick (CH)
- 13:30 – 13:35 Recent results of trials with plant extracts against *Monilia laxa*, *Blumeriella jaapii* and *Gloeosporium fructigenum*
B. Pfeiffer, LVWO Weinsberg, Weinsberg (D)
- 13:35 – 13:50 Demonstration project "Exclusion netting for managing Spotted Wing Drosophila in fruit crops" – Results 2017 – 2019
C. Augel, LTZ Augustenberg, Karlsruhe (D)
- 13:50 – 14:20 Discussion Stone Fruit Production

Session Small Fruit: Strategies of Organic Cultivation

Chair: B. Pfeiffer

Chair:

- 14:20 – 14:35 Raspberry varieties for organic production
G. Muster, LVWO Weinsberg, Weinsberg (D)
- 14:35 – 14:50 Discussion Small Fruit Production
- 14:50 – 15:00 End of Conference

Posters presented in Poster Presentation

Posters not presented also as spotlight presentation in the Conference are printed in bold

Pome fruit: Storage

1 Dynamic Controlled Atmosphere (DCA)- A chance for sustainable organic fruit storage

D.A. Neuwald; F.R. Thewes ; R. Wirth; F. Büchele; N. Klein and A. Brackmann

2 Ethanol vapor treatment suppresses ethylene production and action in 'Elstar' apples

F. R. Thewes; F. Büchele; B. Balkees; A. Brackmann and D.A. Neuwald

Pome Fruit: Breeding and Performance of Pome Fruit Varieties

3 Crowd breeding of Danish apple cultivars

M. Korsgaard and T.B. Toldam-Andersen

4 Selection from old local varieties as expanding gene resource for apple breeding

A. Zeiser, M. Meyer, F. Ruess, U. Mayr

Pome Fruit: Rootstocks

5 Influence of Geneva rootstocks on vegetative and generative characteristics of the apple cultivar 'Topaz' in a replanted orchard

A.Spornberger, E. Schüller, D. Noll

6 Performance of pear trees of the cv. 'Uta' on their own roots propagated from green cuttings in a field trial in Eastern Austria

A. Spornberger, E. Schüller, D. Noll, G. Osterc

Soil Management

7 Fertilization of apple trees with organic fertilizers "Keratin" and "Lumbreco" in Bulgaria - preliminary results

V. Dzhuvinov , I. Staneva, S. Gandev , H. Kutinkova , D. Stefanova , G. Kornov , M. Stoeva

8 Organic apricot production: Towards an ecologically intensive orchard self-sufficient in inputs: Focus on use of AMF for cultivation of rootstocks

A. Garcin., M. Millan., M. Brachet , M. Jay., B. Loquet., C. Villenave, S. Masquelier

9 Soil nutrient availability of new organic fertilizers formulations

E. M. Furmańczyk, M. Tartanus, T. Holtz², M. Kelderer and E. Malusá

Posters presented in Poster Presentation

Posters not presented also as spotlight presentation in the Conference are printed in bold

10 The impact of different organic fertilizers on the soil nematode assemblages in an organic apple orchard

D. Kozacki, G. Soika, M. Tartanus and E. Malusá

11 **Farmers' nutrient management practices in organic apple production in Bhutan**

S. Tashi

Pome Fruit: Pest Management

12 Mass trapping of the apple sawfly *Hoplocampa testudinea*

H. Helsen, P.J. Jansonius, G.W. Brouwer, B. van der Sluis, R. van Tol, A. de Groot, R. van Kats, R. van de Maas

13 Stink bugs, pear scale and medfly: Distribution maps of invasive fruit pests in Germany

A. Reißig and O. Zimmermann

14 Efficacy of different entomopathogenic fungi collected in the field on bugs and codling moth

H. Alkarrat; E. Aljouri, A. El-Hasan, T. Krahl, J. Kienzle, R. Vögele and C.P.W. Zebitz

15 **How to distinguish the eggs of *Halyomorpha halys* Stål, *Nezara viridula* L., and *Pentatoma rufipes* L.**

H. Alkarrat, J. Kienzle & C.P.W. Zebitz

16 Is the brown marmorated stink bug parasitoid *Trissolcus japonicus* (Ashmead) already in Germany?

H. Alkarrat, J. Kienzle and C.P.W. Zebitz

17 Control of codling moth, *Cydia pomonella* with CIDETRAK® CM MEC and CIDETRAK® CM + CIDETRAK® DA MEC liquid formulations in Bulgaria

H. Kutinkova, V. Dzhuvinov and B. Lingren

18 Showcasing use of spinosad and mating disruption products for controlling leafrollers (Lepidoptera: Tortricidae) in an organic apple orchard in Latvia.

E. Jākobsone, J. Gailis and L. Ozolina-Pole

19 First experience with *Eurytoma schreineri* in the Czech Republic

J. Ouředníčková and M. Skalský

Biodiversity enhancement

20 Influence of perennial interrow flower strips on the insect population in organic apple orchards in South Tyrol

Haug, M. Kelderer, B. Zange, U. Benker

21 Effect of introduction of mason bees on yield and quality of pear

W.J.M. Cuijpers, B. Luske, C. Vaderna and G. Brouwer

Posters presented in Poster Presentation

Posters not presented also as spotlight presentation in the Conference are printed in bold

22 **Biodiversity in orchards and conclusions for practical application – an overview about selected studies**

N. Rohde and P. Scheewe

23 Gaming around diversification to teach and learn about agroecology in fruit growing

S. Penvern, A. Dufils, A. Favery, A.-L. Dossin, F. Warlop

24 **Beneficial organisms overwintering in fallen leaves in fruit orchards**

M. Skalský, J. Niedobová, J. Ouředníčková and T. Kudláček

Stone Fruit: Strategy of Organic Cultivation

25 Recent results of trials with plant extracts against *Monilinia laxa*, *Blumeriella jaapii* and *Gloeosporium fructigenum*

Pfeiffer and J. Stoll

26 **Weather variables and landscape composition influence blossom and twig blight (*Monilinia* spp.) damages on apricot in southeastern France**

M. Jacquot, J. Brenner, L. Brun, S. Buléon, W. Chambeyron, D. Dam, J. Dubois, E. Freyssinet, B. Labeyrie, J.-C. Mouchet, S. Stévenin, P. Tresson, Y. Yobé and C.-E. Parveaud

27 Demonstration project “Exclusion netting for managing Spotted Wing Drosophila in fruit crops” – Results 2017 – 2019

C. Augel, B. Boehnke, A. Wichura, J. Lindstaedt, J.-H. Wiebusch, A. Engel, S. Benz, J. Saltzmann, G. Eberhardt, H. Vogt, K. Köppler

Small Fruit: Strategies of Organic Cultivation

28 **Improving Zn nutritional status using amino acids and orthosilicic acid in strawberry plants**

S. Soppelsa, M. Kelderer, C. Casera, A. Matteazzi and C. Andreotti

Project Presentations

29 Boosting innovation in organic fruit production through strong knowledge networks BIO-FRUITNET

30 Exploiting the multifunctional potential of belowground biodiversity in horticultural farming - EXCALIBUR

Since Eligio Malusa is presenting this poster together with others you find Nr. 30 near Nr. 9 and 10

31 Intercropping as a solution to control pests and diseases in soft fruit?

How to arrive at the Conference

The Conference takes place at the Conference Centre Stuttgart-Hohenheim, Paracelsusstr.91, 70599 Stuttgart

How to reach from Stuttgart Central Station

The Conference Centre is located in close proximity to the University of Hohenheim. The venue can be reached by transit rail (Stadtbahn). Please take the U5, U6 or U12 from Stuttgart Central Station to Möhringen and change there for the U3 to Plieningen terminus. The trip should not take longer than 30 minutes. From the Stadtbahn terminus, walk a few metres following the main road and turn right after the roundabout to Paracelsusstraße.

From **Stuttgart Airport** you best take a taxi, it is about 15 minutes.

How to reach the Conference Center from the U-Bahn-Terminus Plieningen:

- If your accommodation is at Katholische Akademie, it is just the same building
- If your accommodation is at Christkönigshaus, it is Paracelsusstr. 89

