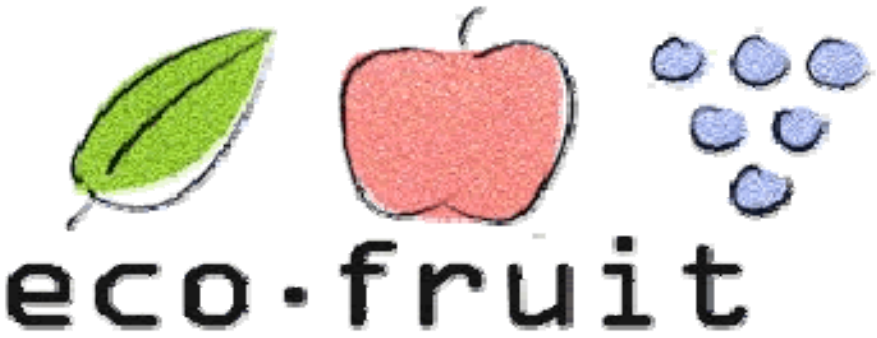
Programme



18th International Conference on Organic Fruit-Growing

The Conference takes place at
Schloss Hohenheim, Aula, Schloß Hohenheim 1,
D-70599 Stuttgart

Patronage: IFOAM EU Group

Baden-Württemberg
MINISTERIUM FÜR LÄNDLICHEN RAUM UND VERBRAUCHERSCHUTZ

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Versuchszentrum
Centro di Sperimentazione
Research Centre
LAIMBURG

State Institute for Viticulture,
Oenology and Fruit Technology
Weinsberg/Germany

Monday, 19th February 2018

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

Ministry of Rural Affairs and Consumer Protection Baden-Wuerttemberg

Peter Rolker, FOEKO e.V.

Pome Fruit: Breeding Activities for Organic Fruit Growing

Chair: B. Pfeiffer

10:30 – 10:45 Broaden the genetic basis in apple breeding by using genetic resources
M. Kellerhals, Agroscope Wädenswil (Switzerland)

10:45 – 11:00 The identification of apple pedigree information on a large diverse set of apple germplasm and its application in apple breeding using new genetic tools
N. Howard, University of Oldenburg (Germany)

11:00 – 11:15 Bringing Commons elements into fruit breeding
S. Sievers-Glotzbach, University of Oldenburg (Germany)

11:15 – 11:25 Research Project EGON: Development of organically bred fruit varieties in commons-based initiatives
H. Wolter, University of Oldenburg (Germany)

11:25– 11:30 Apfel:gut – Preliminary results
M. Ristel, OEON e.V. Jork (Germany)

11:30 – 11:35 Breeding apples with durable resistance on the genetic basis of old local varieties
F. Ruess, LVWO Weinsberg (Germany)

11:35 – 11:40 Perspectives on European organic apple breeding and propagation under the frame of LIVESEED Project
K. Koutis, AEGILOPS (Greece)

11:40 – 12:00 Discussion Pome Fruit Breeding Strategies

Monday, 19th February 2018

Pome Fruit: Varieties and Rootstocks suitable for Organic Fruit Growing
Chair: M. Friedli

12:00 – 11:15 Results from a long term rootstock trial with the apple cultivar 'Topaz' according to organic production conditions in Eastern Austria
A. Spornberger, BOKU Vienna (Austria)

12:15 – 12:20 Comparison of the apple variety Topaz cultivated on rootstocks M25 and M9
M. Schluchter, KOB Bavendorf (Germany)

12:20 – 12:25 Storage- and shelf life behaviour of new apple cultivars
N. Klein, KOB Bavendorf (Germany)

12:25 – 12:30 Thinning the cultivar Natyra®
M. Hechinger, KOB Bavendorf (Germany)

12:30 – 12:45 Discussion Pome Fruit Varieties suitable for Organic Fruit Growing

12:45 – 13:55 Lunch break

Pome Fruit: Strategies for Disease Control
Chair: S. Buchleither

13.55 – 14:10 Symptom occurrence and disease management of Marssonina blotch
A. Bohr, KOB, Bavendorf (Germany)

14:10 – 14:15 Testing resistance of apple cultivars to *Marssonina coronaria*
H. Schärer, FiBL Frick (Switzerland)

14:15 – 14:20 In search of alternative approaches to reduce Alternaria leaf blotch and fruit spots of apple: Testing interactions between slaked lime and sulphur lime.
U. E. Prechsl, VZ Laimburg, Auer (Italy)

14:20 – 14:25 Hot water treatment - using the apples own defence potential
A. Prunier, KOB, Bavendorf (Germany)

14:25 – 14:30 Influence of some weather parameters on the susceptibility of apple fruit to postharvest grey mould attack
S. Wright, University of Gävle (Sweden)

14:30 : 14:35 Identification and quantification of *Candidatus Phytoplasma pyri* in declining trees of a Swiss cider pear orchard after incision treatment at the stem base.
E. Toenshoff, FiBL Frick (Switzerland)

14:35 – 14:45 Discussion Strategies for Disease Control Part 1

Monday, 19th February 2018

14:45 – 15:00	Assessment of new scab control strategies in greenhouse trials *S. Kunz, Bio-Protect GmbH, Konstanz (Germany)*
15:00 – 15:05	Lime sulphur, an important agent to reduce the use of copper in organic pome fruit growing, results from a collaborative research project *B. Benduhn, OEON e.V. Jork (Germany)*
15:05 – 15:10	Results on the copper minimization in organic pome fruit growing from the collaborative research project *B. Benduhn, OEON e.V. Jork (Germany)*
15:10 – 15:15	Recent results from field-experiments with yeast-extract to reduce the primary ascospore inoculum of *Venturia inaequalis* *B. Pfeiffer, LVWO Weinsberg (Germany)*
15:15 – 15:30	Discussion Strategies for Disease Control Part 2
15:30 – 16:00	Coffee break

Pome Fruit: Covering Systems
Chair: S. Buchleither

16:00 – 16:15	Impact of a rain-roof-covering-system on the incidence of fungal diseases, quality parameters and solar radiation in organic apple production *T. Arnegger, KOB, Bavendorf (Germany)*
16:15 – 16:30	Field trials in apple orchards with different covering methods to reduce plant protection treatments and yield losses due to pests and diseases *M. Kelderer, VZ Laimburg, Auer (Italy)*
16:30 – 16:45	Carbon footprint of innovative plastic covers used as insect and pest control system in organic apple orchards *M. Boschiero, VZ Laimburg, Auer (Italy)*
16:45 – 17:00	Discussion Covering Systems

17:15 – 18:30 Workshops Session 1

WS 1: The Commons concept for breeding in organic fruit growing
Introduction *H. Wolter and S. Sievers-Glotzbach*

WS 2: The LIVESEED project for organic breeding
Introduction F. Warlop and K. Koutis

18:45 – 20:00	Internal Meeting of the Organizing Committee of ecofruit Conference
20:00	Dinner

Tuesday, 20th February 2018

Pome Fruit: Strategies for the Enhancement of Predators and Biodiversity

Chair: P. Triloff

8:30 – 8:45	Earwigs and aphids in apple orchards – influence of agri-environmental measures and landscape factors *A. K. Happe, TU Darmstadt (Germany)*
8:45 – 8:50	Monitoring of predation activity in apple orchards *K. Kovarikova, CRI Prague (Czech Republic)*
8:50 – 8:55	*H*ow far do fruit growers get involved in Functional AgroBiodiversity assessment *F. Warlop, GRAB (France)*
8:55 – 9:00	Evaluation and improvement of measures for the enhancement of biodiversity in German organic orchards *Jutta Kienzle, University of Hohenheim (Germany)*
9:00 – 9:20	Discussion Enhancement Predators and Biodiversity

Pome Fruit: Strategies for Pest Control

Chair: J. Kienzle

9:20 – 9:35	Alternative to azadirachtin to control *Dysaphis plantaginea* Passerini (Hemiptera: Aphidae) in organic apple production *G. Alins, IRTA (Spain)*
9:35 – 9:50	Effects of Calcium Hydroxide and Quassia Extract on Honey Bees (*Apis mellifera*) *J. Slave, University of Hohenheim (Germany)*
9:50 – 9:55	The unnoticed invasion of a pest with high harmful potential in fruit and vegetable production: the brown marmorated stink bug *Halyomorpha halys i*n Germany *O. Zimmermann, LTZ Karlsruhe (Germany)*
9:55 – 10:10	Discussion Strategies for Pest Control
10:10 – 10:40	Coffee break

Tuesday, 20th February 2018

Pome Fruit: Strategies for Codling Moth Control
Chair: M. Trapman

10:40 – 10:55 Successful control of codling moth resistance to Cydia pomonella granulovirus (CpGV)
J. Jehle, JKI Darmstadt (Germany)

10:55 – 11:00 Control of codling moth Cydia pomonella L. by using CIDETRAK® CMDA COMBO™ MESO™ dispensers in Bulgaria
H. Kutinkova, Fruit Growing Institute Plodiv *(Bulgaria)*

11:00 – 11:15 Discussion Strategies for Codling Moth Control

Situation in Different Countries in Organic Farming
Chair: M. Kelderer

11:15 – 11:30 Organic Temperate Fruits in North and South America: Production, Consumption, and Economic Trends
D. Granatstein, Washington State University, Wenatchee (USA)

11:30 – 11:45 Organic Fruit Research Update for the US
D. Granatstein, Washington State University, Wenatchee (USA)

11:45 – 11:50 Organic fruit growing in Spain: First approach to its development
V. Gonzálvez, SEAE (Spain)

11:50 – 12:00 Discussion Situation in Different Countries

12:00 – 13:15 Lunch break

13:15 – 15:00 Poster presentation

Posters presented only in poster presentation and not as spotlight presentation:
(*the other posters are listed at the end of the programme*)

1 The Efficacy of European Fruit Lecanium, *Parthenolecanium corni* (Bouché, 1844) Control Using Natural Products
M. Skalský, J. Niedobová, J. Popelka (Czech Republic)

2 Induction of natural defenses by *Mimosa tenuiflora* and *Quercus robur* extract in lettuce against *Sclerotinia sclerotiorum*
Maria Mateu, Ana I González-Hernández, Eugenio Llorens, Carlos Agustí-Brisach, Begonya Vicedo, Antonio Cerveró, Teresa Yuste, Carlos Ledó, Pilar García-Agustín and Leonor Lapeña (Spain)

Tuesday, 20th February 2018

13:15 – 15:00 Poster presentation

3 Copper heptagluconate as ecofriendly compound enhancing the plant immune system of *Solanum lycopersicum* against *Pseudomonas syringae*, causal agent of bacterial speck

Ana I. González-Hernández, Eugenio Lloren, Carlos Agustí-Brisac, Begonya Vicedo, Teresa Yuste, Antonio Cerveró, Carlos Ledó, Pilar García-Agustín, Leonor Lapeña (Spain).

4 Manufacturing a prototype swing mechanical arm Weeder for orchard trees

E.M. Sehsah, Fac, of Agriculture, Kafrelsheikh (Egypt)

Strategies for Fertilization and Improvement of the Soil
Chair: M. Kelderer.

15:00 –15:15 Bio-phytoremediation of organic pollutants in soils from organic farms: Current situation in Poland and challenges
E. Malusa, RIH Skierniewice (Poland)

15:15 – 15:30 Nutrient flows and nutrient balances in organic apple orchards: A study of organic apple production in Southern Germany
K. Moeller, LTZ Augustenberg (Germany)

15:30 – 15:45 Nutrient balances of South Tyrolean apple farms - a comparison between the integrated and organic production system
S. Alber, VZ Laimburg (Italy)

15:45 – 15:50 Reflective mulch is a useful orchard floor management tool to suppress weeds and increase photosynthesis
Julia Reekie, Agriculture and Agri-Food Canada (Canada)

15:50 -16:15 Discussion Fertilization and Improvement of the Soil

16:30 – 18:00 Workshops Session 2

WS 1: New rules for trees commercialization : where are we in EU countries?
Introduction F. Warlop

WS 2: Project DOMINO (soil management)
Introduction S. Zikeli, D. Neri. The new Core-Organic Cofund Project Domino aims at increasing the resilience and sustainability of organic fruit growing systems in Europe by the development of new fertilization strategies based on recycled materials, increased biodiversity in the orchard and by the use of protected growing systems. The DOMINO workshop aims at the integration of ideas of the sector into the project and wants to create a possibility for networking of project participants and interested colleagues.

WS 3: How to deal with *Halyomorpha halys* and with stinkbugs
Introduction O. Zimmermann

18:15 – 19:45 Assembly of IFOAM EU Specialist Group Fruit Growing

20:00 Dinner

Wednesday, 21th February 2018

Stone Fruit: Strategies for Organic Cultivation

Chair: B. Pfeiffer

8:30 – 08:35	The use of non-chemical methods in *Rhagoletis cerasi* control in baby food production *V. Falta, Biocont Laboratory, Modřice (Czech Republic)*
8:35 – 08:40	Testing of germ-inhibiting effects of different essential oils on conidia of *Monilia fructigena* and *Blumeriella jaapii* *B. Pfeiffer, LVWO Weinsberg (Germany)*
8:40 – 08:45	Control of Cherry leaf spot (*Blumeriella jaapii*) and Shot hole disease (*Wilsonomyces carpophillus*) with lime sulfur application before and after rain event *Z. Jelev, Agricultural University-Plovdiv (Bulgaria)*
8:45 – 08:50	Sweet cherry resistance to spring frost damage at bloom stage *R. Vávra, Research and Breeding Institute of Pomology Holovousy Ltd. (Czech Republic)*
8:50 – 08:55	Reaction of organically grown walnut cultivars to walnut blight (*Xanthomonas campestris p.v. juglandis*) and anthracnose (*Gnomonia leptostyla*) *M. Marinov, Agricultural University-Plovdiv (Bulgaria)*
8:55 – 09:15	Discussion Strategies for Organic Production of Stone Fruit

Strategies for the Regulation of *Drosophila suzukii*

Chair: F. Warlop

9:15 – 09:20	Are there preferences of *Drosophila suzukii* for cherry and plum varieties? *K. Köppler, LTZ Karlsruhe-Augustenberg (Germany)*
9:20 – 09:25	Control of *Drosophila suzukii* with DS-Lime in black berries *K. Köppler, LRA Karlsruhe in Bruchsal (Germany)*
9:25 – 09:40	*Drosophila suzukii* control using Kaolin, lime and rock dusts *C. Daniel FiBL Frick (Switzerland)*
9:40 – 09:55	*Drosophila suzukii* migration into orchards: Observations and field studies *A. Eben, JKI Dossenheim (Germany)*
9:55 – 10:10	Demonstration project "Exclusion netting for managing Spotted Wing Drosophila in fruit crops" – Results 2017 *B. Boehnke, JKI Dossenheim (Germany)*

Wednesday, 21th February 2018

10:10 – 10:20 Discussion Strategies for the Regulation of *Drosophila suzukii*

10:20 – 10:50 Coffee break

10:50 – 12:15 Workshops Session 3

WS 1: Future strategies to deal with *Drosophila suzukii*
Introduction K. Koeppler, C. Daniels, A. Eben, H. Vogt

WS 2: Could the "Commons concept" be an idea for a better strategy to deal with the challenges to mantain available naturally occurring substances used in plant health care in organic fruit growing?
Introduction H. Wolters and J. Kienzle

12:15 – 13:15 Lunch break

Small Fruit: Strategies for Organic Cultivation
Chair: B. Pfeiffer

13:15 – 13:30 Effective control of *Melolontha spp*. in organic strawberry plantations by means of holistic approach
E. Malusa, RIH, Skierniewice (Poland)

13:30 – 13:35 Foliar applications of different plant biostimulants promote growth and fruit quality of strawberry plants grown under nutritional limitation
S. Stoppelsa, Free University of Bolzano-Bozen (Italy)

13:35 – 13:40 A first survey on the health quality of soils in Martell valley with the prospective of implementing organic production of strawberries
M. Kelderer, Versuchszentrum Laimburg (Italy)

13:40 – 13:45 Translocation of phosphonate from frigoplants to fruit in strawberries
H. Schärer, FiBL Frick (Switzerland)

13:45 – 13:50 Insect biodiversity in soft fruits - monitoring and barcoding.
O. Zimmermann, LTZ Karlsruhe-Augustenberg, (Germany)

13:50 – 13:55 Survey of pests and beneficial fauna in organic small fruits plantations
E. Malusa, RIH, Skierniewice (Poland)

13:55 – 14:15 Discussion Strategies for Organic Cultivation of Small Fruit

14:30 End of Conference

Posters presented in poster presentation and as spotlight presentation

For the contributions presented as spotlight presentation it is not obligatory to present also a poster. Sometimes, this is a short term decision. Thus, it may happen that some of the posters listed are not presented.

The posters 1-4 are not presented as spotlight presentation and, thus, listed directly in the poster presentation session.

5 Research Project EGON: Development of organically bred fruit varieties in commons-based initiatives
H. Wolter, University of Oldenburg (Germany)

6 Apfel:gut – Preliminary results
M. Ristel, OEON e.V. Jork (Germany)

7 Breeding apples with durable resistance on the genetic basis of old local varieties
F. Ruess, LVWO Weinsberg (Germany)

8 Perspectives on European organic apple breeding and propagation under the frame of LIVESEED Project
K. Koutis, AEGILOPS (Greece)

9 Comparison of the apple variety Topaz cultivated on rootstocks M25 and M9
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12 Hot water treatment - using the apples own defence potential
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13 Influence of some weather parameters on the susceptibility of apple fruit to postharvest grey mould attack
S. Wright, University of Gävle (Sweden)

14 Identification and quantification of *Candidatus Phytoplasma pyri* in declining trees of a Swiss cider pear orchard after incision treatment at the stem base.
E. Toenshoff, FiBL Frick (Switzerland)

15 Recent results from field-experiments with yeast-extract to reduce the primary ascospore inoculum of *Venturia inaequalis*
B. Pfeiffer, LVWO Weinsberg (Germany)

16 Monitoring of predation activity in apple orchards
K. Kovarikova, CRI Prague (Czech Republic)

17 *H*ow far do fruit growers get involved in Functional AgroBiodiversity assessment
F. Warlop, GRAB (France)

18 The unnoticed invasion of a pest with high harmful potential in fruit and vegetable production: the brown marmorated stink bug *Halyomorpha halys i*n Germany
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Posters presented in poster presentation and as spotlight presentation

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H. Kutinkova, Fruit Growing Institute Plodiv *(Bulgaria)*

20 Organic fruit growing in Spain: First approach to its development
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21 Reflective mulch is a useful orchard floor management tool to suppress weeds and increase photosynthesis
Julia Reekie, Agriculture and Agri-Food Canada (Canada)

22 The use of non-chemical methods in *Rhagoletis cerasi* control in baby food production
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27 Are there preferences of *Drosophila suzukii* for cherry and plum varieties?
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S. Stoppelsa, Free University of Bolzano-Bozen (Italy)

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