Final announcement

and

Programme

3rd international scientific conference
„Sustainable Fruit Growing: From Plant to Product”

4th European Workshop on Seabuckthorn
EuroWorkS 2016

Riga–Dobele, 17–19 August 2016

http://www.lvai.lv/Konference-2016/index.html
Venue: Hotel MONIKA,
Elizabetes iela 21, Riga, Latvia

3rd international scientific conference „Sustainable Fruit Growing: From Plant to Product”
4th European Workshop on Seabuckthorn EuroWorkS 2016
Riga–Dobele, 17–19 August 2016

Organisers

Institute of Horticulture, Latvia University of Agriculture
(Formerly Latvia State Institute of Fruit-Growing)

Institute of Horticulture

The German Society for Seabuckthorn and Wild Fruits
3rd International Scientific Conference „Sustainable Fruit Growing: From Plant to Product“
4th European Workshop on Seabuckthorn EuroWorkS 2016
Riga–Dobele, 17–19 August 2016

Scientific secretary:
Arturs Stalažs, Latvia

Organising committee:
Inese Ebele, Latvia
Daina Feldmane, Latvia
Edite Kaufmane, Latvia
Gunārs Lācis, Latvia
Inga Moročko-Bičevska, Latvia
Edgars Rubauskis, Latvia
Dalija Segliņa, Latvia
Sarmīte Strautiņa, Latvia

Assistants:
Nazlican Aydoğan, Turkey
Māris Jundzis, Latvia
Nur Funda Tutar, Turkey

Scientific committee:
Gunārs Lācis, Latvia (chair)
Laila Ikase, Latvia
Edite Kaufmane, Latvia
Sanna Kauppinen, Finland
Darius Kviklys, Lithuania
Inga Moročko-Bičevska, Latvia
Jörg-Thomas Mörsel, Germany
José Quero Garcia, France
Edgars Rubauskis, Latvia
Dalija Segliņa, Latvia
Mirosław Sitarek, Poland

Invitation

Dear colleagues,

Organising Committee thanks you for registering. We are very pleased to welcome all of you to 3rd International Scientific Conference „Sustainable Fruit Growing: From Plant to Product“, and 4th European Workshop on Seabuckthorn EuroWorkS 2016, which will take place on 17–19 August 2016.
3rd international scientific conference „Sustainable Fruit Growing: From Plant to Product”

The conference is organised by the Institute of Horticulture, Latvia University of Agriculture (formerly Latvia State Institute of Fruit-Growing); website: http://www.lvai.lv.

The conference program includes oral and poster sessions. A technical tour to the Institute (laboratories and experimental orchards) and commercial fruit orchards in Kurzeme and Zemgale region will be organised for interested participants.

Conference sessions will be:
♦ Plant genetics, genetic resources and breeding
♦ Orchard management and cultivar testing
♦ Plant protection
♦ Fruit quality, harvesting and postharvest technologies

4th European Workshop on Seabuckthorn EuroWorkS 2016

The workshop on seabuckthorn EuroWorkS 2016 is organised by the Institute of Horticulture, Latvia University of Agriculture, and the German Society for Seabuckthorn and Wild Fruits, (website: http://www.sanddorn.net/1index5.htm).

The workshop program includes oral and poster sessions. A technical tour to the Institute (laboratories and experimental orchards) and seabuckthorn commercial nursery, orchards and product producers in Kurzeme and Zemgale region will be organised for interested participants.

Workshop sessions will be
♦ Harvesting and product quality
♦ Plant health, pests and diseases
# Time Table

**3rd international scientific conference „Sustainable Fruit Growing: From Plant to Product“**

**4th European Workshop on Seabuckthorn EuroWorkS 2016**

Riga–Dobele, 17–19 August 2016

<table>
<thead>
<tr>
<th>Time Table</th>
<th>3rd international scientific conference „Sustainable Fruit Growing: From Plant to Product“</th>
<th>4th European Workshop on Seabuckthorn EuroWorkS 2016, ISA Board meeting</th>
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<tr>
<td><strong>Tuesday, 16 August 2016</strong></td>
<td>Arrival and accommodation</td>
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<td>16:10–16:30</td>
<td><strong>Closing session</strong></td>
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<td>16:40–17:40</td>
<td><strong>Poster session</strong></td>
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<td>Growing of seabuckthorn in Latvia (video)</td>
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<td>8:00</td>
<td><strong>Technical tour 2</strong> (whole day)</td>
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Language

The official language will be English.

Abstracts

Submission of abstracts is closed!

Submitted abstracts will be reviewed and printed in the book of abstracts handed out to participants during the event.

Papers

Submitted papers will be peer-reviewed by international experts and published, after journal editorial board acceptance, in a special issue of the open access journal *Proceedings of the Latvian Academy of Sciences. Section B. Natural, Exact, and Applied Sciences*, at the first part of 2017 (website: [http://www.degruyter.com/view/j/prolas](http://www.degruyter.com/view/j/prolas)). A printed version of *Proceedings of the Latvian Academy of Sciences* will be provided only by special request and will be charged separately.

All papers must be submitted electronically, until 19 August 2016, to: [gunars.lacis@lu.lv](mailto:gunars.lacis@lu.lv)

Instructions for authors: [http://www.degruyter.com/view/supplement/s1407009X_Instructions_to_Authors.pdf](http://www.degruyter.com/view/supplement/s1407009X_Instructions_to_Authors.pdf)


Presentations

The conference will include oral and poster presentations.

**Oral presentations** will be limited to 15 minutes for presentation, including time for discussion.

**Posters** must be in size no exceeding A0 (841 × 1189 mm), portrait alignment.
Important dates

19 August 2016  Paper submission

Venue

The conference and workshop sessions will take place in the Hotel MONIKA Riga, 17–19 August 2016.
Address: Elizabetes iela 21, Riga, LV-1010, Latvia
Website: http://www.monika.centrumhotels.com/en/

Registration

Registration is closed!

Contacts

Institute of Horticulture, Latvia University of Agriculture
Graudu iela 1, Ceriņi, Krimūnu pagasts, Dobeles novads, LV-3701, Latvia
Website: http://www.lvai.lv

Scientific secretary: arturs.stalazs @ llu.lv (registration and abstracts)
Other contact information — phone: +371 63722294 (general)
Mob. phone: +371 26711411 (A. Stalazs); Fax: +371 63781718
Accommodations

Choice of hotels will include rooms at the conference venue and alternative hotels in Riga. Hotel reservation will be guarantee only for Pre-registered participants.

Riga hotel prices vary, *** to **** hotels may cost about 50–80 EUR per night.

At the conference venue, Hotel MONIKA (address: Elizabetes iela 21, Riga, LV-1010, Latvia, website: http://www.monika.centrumhotels.com/en/) prices per night for Conference and EuroWorkS 2016 participants are:

- Single room: 64.00 EUR
- Double room: 74.00 EUR
- Deluxe room: 89.00 EUR

Reservation of rooms in other hotels is possible at: http://www.booking.com/.

Travel tips

There is frequent air traffic to Riga. Information: http://www.riga-airport.com

Good bus traffic also is available from many European cities. Information:

http://www.autoosta.lv
http://www.luxexpress.eu/
http://www.ecolines.net/
http://www.eurolines.com
http://www.1188.lv/transport/

If you drive a car, take into account that traffic jams in rush hours are common in Riga. The weather in August is still warm, but may vary a lot; better take a coat and an umbrella. For information http://www.1188.lv/weather/

Do not hesitate to contact us on more details!

Looking forward to see you,
Organising Committee,
Institute of Horticulture, Latvia University of Agriculture
(formerly Latvia State Institute of Fruit-Growing)
Programme

3rd international scientific conference „Sustainable Fruit Growing: From Plant to Product”

Wednesday, 17 August 2016

9:00–10:00  Registration

10:00–10:30  **Edite Kaufmane, Māra Skrīvele, Dalija Segliņa**  
Institute of Horticulture in the context of fruit industry in Latvia

**Session 1**  
*Plant genetics, genetic resources and breeding* (chairs: Edīte Kaufmane, Daniela Benediková)

10:30–10:45  **Bogumiła Badek, Małgorzata Korbin, Stanisław Pluta**  
Analysis of selected *Ribes* genotypes diversed in their resistance to blackcurrant gall mite (*Cecidophyopsis ribis*) using SSR markers

10:45–11:00  **Daniela Benediková, Michaela Benková, Iveta Čičová, Miroslav Glasa**  
The old cherry genotypes in Slovakia — monitoring and evaluation

11:00–11:15  **Laila Ikase, Gunārs Lācis**  
Apple genetic resources in Latvia — history, current situation and perspectives

11:15–11:30  **Inese Drudze**  
Possibilities for wider use of *Sorbus* spp. in commercial orchards using the collection of genetic resources available in Latvia

11:30–11:50  Coffee break

**Session 2**  
*Orchard management and cultivar testing* (chairs: Edgars Rubauskis, Sanna Kauppinen)

11:50–12:05  **Laila Ikase, Edgars Rubauskis, Zanda Rezgale**  
Evaluation results of Finnish apple rootstocks in Latvia

12:05–12:20  **Mikko Nissinen, Sanna Kauppinen, Hilma Kinnanen**  
Foreign fruit cultivars suitable for Finnish climate — preliminary experiences and recommendations

12:20–12:35  **Mirosław Sitarek**  
Performance of sweet cherry ‘Regina’ on nine clonal rootstocks

12:35–12:50  **Daina Feldmane, Silvija Ruisa, Valentīna Pole, Madalina Butac, Madalina Militaru**  
Fruit set of sour cherry cultivars grown in Latvia

12:50–13:50  Lunch

**Session 3**  
*Plant protection* (chairs: Arturs Stalažs, Alma Valiuškaitė)

13:50–14:05  **Baiba Ralle, Laura Ozoliņa-Pole, Annette Herz, Servane Penvern, François Warlop, Mario Porcel, Marc Tchamitchian, Lukas Pfiffner, Laurent Jamar, Dorota Kruczyńska, Maren Korsgaard, Marcus Kelderer, Lene Sigsgaard**  
Functional agrobiodiversity in apple pest management in Latvia — what do we know

14:05–14:20  **Alžbeta Nagyová, Nina Sihelská, Slavomíra Nováková, Lukáš Predajňa, Miroslav Glasa**  
In vitro micrografting of different *Prunus* species with two cherry-adapted strains of *Plum pox virus*

14:20–14:35  **Alma Valiuškaitė, Nobertas Uselis, Darius Kvilkys, Juozas Lanauskas, Neringa Rasiukevičiūtė**  
The effect of sustainable plant protection and apple management for fruit quality

14:35–14:50  **Dmitrij Konavko, Márís Jundzis, Kristine Vēvere, Inga Muročki-Bičevska**  
The pathogenicity of *Pseudomonas syringae* on various species of fruit trees and other related hosts

**Session 4**  
*Fruit quality, harvesting and postharvest technologies* (chairs: Vitalijs Radenkovs, Dorota Konopacka)

14:50–15:05  **Dorota Konopacka, Krzysztof P. Rutkowski**  
Food safety — challenges and opportunities for innovations in fruit storage and processing
Thursday, 18 August 2016

9:00–10:00  Registration

10:00–10:30  **Andrejs Brūvelis**
Seabuckthorn in Latvia — development trends

10:30–11:00  **Sanna Kauppinen**
Seabuckthorn leaves and the process of novel food evaluation

11:00–11:30  **Georgii U. Galitsyn, Valentina K. Kreymer**
Breeding of seabuckthorn for biomass

11:30–12:00  **Ina Gradt, Sascha Kühn, Jörg-Thomas Mörsel, Galina Zvaigzne**
Chemical composition of seabuckthorn leaves, branches and buds

12:00–13:00  **Kirsten Jensen**
Simple and cheap equipment for small scale production of seabuckthorn

13:00–14:00  **Discussions**

14:00–14:30  **Arturs Stalažs, Maksims Balalaikins**
Distribution of Rhagoletis batava in Europe: review

14:30–15:00  **Dmitrijs Konavko, Arturs Stalažs, Olga Sokolova, Māris Jundzis, Maksims Balalaikins, Inga Moročko-Bičevska**
A survey on diseases and pests of seabuckthorns grown in Latvia

15:00–15:30  **Per-Olof Lundquist, Syed Rehmatullah Shah, Tatiana Plaksina, Sridevy Sriskandarajah, Peter Agback**
Root traits of seabuckthorn

15:30–16:00  **Closing session, discussions**
Poster presentations

3rd international scientific conference „Sustainable Fruit Growing: From Plant to Product”

Session 1  Plant genetics, genetic resources and breeding

**Anita Kuras, Agnieszka Masny, Małgorzata Korbin**
Molecular diversity of selected Fragaria genotypes determined with microsatellite markers

**Toms Bartulsons, Gunārs Lācis**
Characterization of miRNA involved in apple (*Malus ×domestica* Borkh.) resistance to apple scab caused by *Venturia inaequalis* (Cooke) Wint.

**Natalia N. Kovalenko**
Systematisation of collection specimens of blackthorn (*Prunus spinosa* L.) using the method of hierarchical variance analysis

**Michaela Benková, Iveta Čičová, Daniela Benediková, Miroslav Glasa**
Variability of old sweet cherries found in Slovak regions and their preservation

**Gunārs Lācis, Irita Kota-Dombrovskā, Sarmite Strauša**
Evaluation of red raspberry cultivars used for breeding and commercial growing in Baltic region

**Gunārs Lācis, Irita Kota-Dombrovskā, Toms Bartulsons**
Clonal diversity and genetic relatedness of the seabuckthorn germplasm grown in Latvia

**Laila Ikase, Gunārs Lācis, Zanda Rezgale**
Preliminary results with clones of the apple cultivar ‘Baltais Dzidrais’ (WHITE TRANSPARENT) in Latvia

**Irina Dubravina, Igor Vasilenko, Sergei Gorlov**
Scab-immune cultivars having prospects for apple breeding

Session 2  Orchard management and cultivar testing

**Alena V. Poukh**
Evaluation of introduced plum cultivars in the conditions of Southern Zone of the Republic of Belarus

**Andis Karlsons, Anita Osvalde, Jolanta Pormale**

**Dace Šternie, Marta Liepniece, Mintauts Āboliņš**
Effect of pruning intensity on the blueberry productivity and fruit quality

**Dzintra Dēķena, Alena V. Poukh, Kersti Kahu, Valda Laugale, Ina Ašina**
Influence of rootstocks on plum productivity in different growing regions

**Edgars Rubauskis, Māra Skrīvele**
Performance of different apple cultivars in young high density orchard

**Gennady V. Eremin, Vladimir N. Podorozhniy, Oksana V. Eremina**
Use of genetic diversity of genus *Prunus* L. in the selection of clonal rootstocks for stone fruits and peculiarities of their reproduction

**Gholibjon Mahmudov, Khabibullo Nazarov, Zokirjon Bustomonov, Alijon Khamraliyev**
Effects of delayed pruning and girdling grapevines in different trellising systems in Uzbekistan and comparison effects on ripening time, harvest quality and volume

**Krista Tiirmaa, Toivo Univer, Neeme Univer**
The results of a study of the vegetative growth, yield, fruit quality and fruit storability of the apple cultivar ‘Krista’

**Liina Arus, Asta-Virve Libek, Hedi Kaldmae, Reelika Rätsep, Ave Kikas**
Improvement of raspberry cultivars in Estonia

**Valda Laugale, Sandra Dane, Liga Lepse, Sarmite Strauša**
Evaluation of ten strawberry cultivars and hybrids and effect of organic calcite fertiliser

**Inés Lasala González, Reima Leinonen, Rainer Peltola, Henri Vanhanen**
Diurnal pollination pattern of lingonberry
Valentīna Pole, Imants Missa, Edgars Rubauskis, Egils Kalva, Sanita Kalva
The effect of nitrogen fertiliser on growth and production of apples in the conditions of Latvia

Valentīna Pole, Imants Missa, Edgars Rubauskis, Egils Kalva, Sanita Kalva
Influence of calcium and nitrogen fertilising to bitter pit progression during storage of apples of the cultivar ‘Ante’

Ieva Kalniņa, Sarmite Strautiņa
One of the main factors that determines early development of strawberry yield — warm temperatures in last autumn

Ilze Grāvīte
The influence of different pruning systems on the beginning of domestic plum production and the first yield

Session 3 Plant protection

Neringa Rasiukevičiūtė, Inga Moročko-Bičevska, Audrius Sasnauskas
Characterization of growth variability and vegetative compatibility of Botrytis cinerea isolates originated from apple and strawberry in Lithuania

Anatoly Krivorot, Yauhen Dzemidovich
Fruit loss reduction of immune cultivars to apple scab using bacteria Bacillus amyloliquefaciens in Belarus

Baiba Lāce
Gymnosporangium fungi — an important issue of plant protection: review

Branimir Nježić, Dušan Pećanin, Gordana Đurić
Monitoring of Rhagoletis cerasi flight activity in two cherry growing areas of Bosnia and Herzegovina

Elena Tsolova, Liliana Koleva, Spaska Kalcheva
Control and management of plant-parasitic nematodes in integrated production of garden strawberries (Fragaria ×ananassa Duchesne ex Rozier)

Ferenc Pál-Fám, Sándor Keszthelyi, Richárd Hoffmann, Kinga Rudolf
Macrofungi occurrence in orchards in the Carpathian Basin

Jelena Tarlanović, Biserka Milić, Zoran Keserović, Nenad Magazin, Mladen Petreš, Milan Stević, Mila Grahovac
Antifungal activity of naphthenic acids on phytopathogenic fungi

Jūlija Vilcāne, Inta Jakobiņa
Incidence and severity of European canker in orchards in Latvia

Katsyarina Vasekha
Species of pathogens associated with fruit rots in apple orchards of Belarus

Laura Ozoliņa-Pole

Mladen Petreš, Jelena Tarlanović, Milica Aćimović, Jelica Balaž, Mila Grahovac
Effect of wild oregano essential oil on Erwinia amylovora

Neda Zuļģe, Anna Kāle, Alina Gospodaryk, Kristine Vēvere, Inga Moročko-Bičevska
Establishment of nuclear stock collections for apple and pear in Latvia

Nina Sihelská, Alžbeta Nagyová, Lukáš Predajňa, Miroslav Glasa
Detection of cherry viruses in Slovakia using RT-PCR and polyvalent PDO-RT-PCR approach

Yuliya N. Grebneva
Specific structure and structure of domination of pear pests in gardens of Belarus

Olga Sokolova, Inga Moročko-Bičevska
Development of method for evaluation of apple resistance and Venturia inaequalis virulence in vitro

Regina Rancâne
The influence of temperature and wet periods on the development of apple and pear scab

Regina Rancâne, Lele Grantiņa-Ieviņa, Guna Ērgle
The incidence of storage diseases on apples and pears in Latvia

Session 4 Fruit quality, harvesting and postharvest technologies

Ave Kikas, Kersti Kahu, Liina Arus, Hedi Kaldmäe, Asta-Virve Libek
Qualitative properties of the fruits of blackcurrant genotypes in conventional and organic growing

Karina Juhneviča-Radenkova, Vitalijs Radenkovs, Dalija Segiņa
Assessment of apple shelf-life next of post-harvest long-term storage under innovative technology conditions

Liina Arus, Hedi Kaldmäe, Reelika Rätsep, Ave Kikas
Effect of storage time on fruit biochemical composition of blue-berried honeysuckle (Lonicera caerulea L.) cultivars
Session 1 Harvesting and product quality

Maryna S. Shalkevich, Ludmila A. Murashkevich, Iryna N. Astapchuk
Dessert properties of seabuckthorn fruit from the National genetic collection

Dag Røen, Kimmo Rumpunen
Seabuckthorn in Norway

Dalija Segliņa, Inta Krasnova, Pawel Górnaś, Inga Mišina
Lipophilic and hydrophilic compounds in seabuckthorn vegetative parts and extracts

Laima Liepa, Evita Zolnere, Ilmārs Dūrītis, Dalija Segliņa
Preliminary results of the effect of the seabuckthorn leaves and fruit marc extract on the health indices of calves

Session 2 Plant health, pests and diseases

Sonata Kazlauskaitė, Alma Valiuškaitė, Povilas Mulerčikas
Rhagoletis batava: as a new pest on seabuckthorn in Lithuania