<table>
<thead>
<tr>
<th>Time</th>
<th>Session chair / Keynote speaker/presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>9h00</td>
<td>Sibylle Verplaetse Belgium (Flanders)</td>
<td>Opening session Welcome on behalf of the Flemish Minister for Environment, Nature &amp; Culture Ms Joke Schauvliege</td>
</tr>
<tr>
<td>9h10</td>
<td>Francesco Presicce European Union</td>
<td>(1) Implementation of the Nitrates Directive in the EU: Results overview 2007-2011</td>
</tr>
<tr>
<td>9h55</td>
<td>Silvana Nicola Italy</td>
<td>(2) The application of the Nitrates Directive to vegetable crops: tools and strategies from NEV2013 for an integrated fertilisation management</td>
</tr>
<tr>
<td>10h25</td>
<td>Clive Rahn United Kingdom</td>
<td>(3) The challenges of knowledge transfer in the implementation of the Nitrates Directive</td>
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</tbody>
</table>

**Technical session 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session chair / Keynote speaker/presenter</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>10h55</td>
<td>Mathias Fink</td>
<td>Innovative cultivation and fertilization techniques in horticulture</td>
</tr>
<tr>
<td>11h25</td>
<td>Rodney Thompson Spain</td>
<td>(4) Improved nitrogen management practices for vegetable production</td>
</tr>
<tr>
<td>11h40</td>
<td>Cody Thompson Canada</td>
<td>(5) Optical sensors for the ion-selective management of hydroponic nutrient solution quality</td>
</tr>
<tr>
<td>11h55</td>
<td>Morgan Abras Belgium (Wallonia)</td>
<td>(6) Management of nitrogen fertilization of fresh vegetable crops at field scale in Wallonia (Belgium)</td>
</tr>
<tr>
<td>12h10</td>
<td>Annette Pronk The Netherlands</td>
<td>(7) Row application of fertilizers, manure and manure fractions to increase nutrient use efficiency</td>
</tr>
<tr>
<td>12h25</td>
<td>Annegret Uebelhoer Germany</td>
<td>(8) Soil erosion in vegetable production – Solution approaches</td>
</tr>
<tr>
<td>12h25</td>
<td>Stefaan De Neve Belgium (Flanders)</td>
<td>(9) Minerals and wastewater treatment products effectively increase P sorption capacity in acidic sandy soils</td>
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</tr>
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</table>
## Technical session 2

### Oehoe

<table>
<thead>
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<th>Start</th>
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<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>14h00</td>
<td>15h45</td>
<td>Michael Hamell</td>
<td>Recirculation of nutrients and irrigation in horticulture</td>
</tr>
<tr>
<td>14h00</td>
<td>14h30</td>
<td>Wim Voogt</td>
<td>The Netherlands&lt;br&gt;<strong>Title</strong>&lt;br&gt;Sustainable nutrient management in soilless culture in Dutch greenhouse horticulture</td>
</tr>
<tr>
<td>14h30</td>
<td>14h45</td>
<td>Els Berckmoes</td>
<td>Belgium (Flanders)&lt;br&gt;<strong>Title</strong>&lt;br&gt;Quantification of nutrient rich wastewater flows in soilless greenhouse cultivations</td>
</tr>
<tr>
<td>14h45</td>
<td>15h00</td>
<td>Timothy Hartz</td>
<td>USA&lt;br&gt;<strong>Title</strong>&lt;br&gt;Improving irrigation and nitrogen management in California leafy greens production</td>
</tr>
<tr>
<td>15h00</td>
<td>15h15</td>
<td>Nico Lambert</td>
<td>Belgium (Flanders)&lt;br&gt;<strong>Title</strong>&lt;br&gt;Anoxic Moving-Bed BioReactor (MBBR) and phosphate filter as a robust end-of-pipe purification strategy for horticulture</td>
</tr>
<tr>
<td>15h15</td>
<td>15h30</td>
<td>Miguel Quemada</td>
<td>Spain&lt;br&gt;<strong>Title</strong>&lt;br&gt;Strategies to control nitrate leaching in irrigated agricultural systems and their effects on crop yield: a comparative meta-analysis</td>
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## Technical session 3

### Oehoe

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<th>Start</th>
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<th>Title</th>
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</thead>
<tbody>
<tr>
<td>16h15</td>
<td>17h45</td>
<td>Sylvain Pellerin</td>
<td>Catch crops and crop rotation alternatives in intensive horticultural production</td>
</tr>
<tr>
<td>16h15</td>
<td>16h45</td>
<td>Francesco Tei</td>
<td>Italy&lt;br&gt;<strong>Title</strong>&lt;br&gt;Optimization of N fertilisation through fertigation and green manuring: case studies in processing tomato</td>
</tr>
<tr>
<td>16h45</td>
<td>17h00</td>
<td>Hanne Kristensen</td>
<td>Denmark&lt;br&gt;<strong>Title</strong>&lt;br&gt;Nitrogen management by use of in-season living mulch in organic cauliflower production</td>
</tr>
<tr>
<td>17h00</td>
<td>17h15</td>
<td>Greet Ruysschaert</td>
<td>Belgium (Flanders)&lt;br&gt;<strong>Title</strong>&lt;br&gt;Spatial and temporal variability of rooting characteristics and catch crop effectiveness</td>
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<tr>
<td>17h15</td>
<td>17h30</td>
<td>Lingyun Kang</td>
<td>China&lt;br&gt;<strong>Title</strong>&lt;br&gt;Strategies to reduce nitrogen leaching by summer catch crop in vegetable greenhouse of North China</td>
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</tr>
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</table>
## Tuesday - September 17, 2013

<table>
<thead>
<tr>
<th>Time</th>
<th>Session chair / Keynote speaker/presenter</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>8h30 - 10h30</td>
<td>Clive Rahn</td>
<td><strong>Phosphorus, horticulture and the environment</strong></td>
</tr>
<tr>
<td><strong>Oehoe</strong></td>
<td>8h30 - 9h00</td>
<td>Sylvain Pellerin</td>
</tr>
<tr>
<td>9h00 - 9h15</td>
<td>Jorn Nygaard Sorensen</td>
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<tr>
<td>9h15 - 9h30</td>
<td>Fien Amery</td>
<td>Belgium (Flanders)</td>
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<td>9h30 - 9h45</td>
<td>Thijs Vanden Nest</td>
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</tr>
<tr>
<td>9h45 - 10h00</td>
<td>Arjan Reijneveld</td>
<td>The Netherlands</td>
</tr>
<tr>
<td>10h30 - 12h00</td>
<td>Mathias Fink</td>
<td>Germany</td>
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<tr>
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<td>10h00 - 11h00</td>
<td>Laura Agneessens</td>
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<td>11h15 - 11h30</td>
<td>Martin Armbruster</td>
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<td>11h30 - 11h45</td>
<td>Tomas Van de Sande</td>
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<td>11h45 - 12h00</td>
<td>Koen Willekens</td>
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<td>11h00 - 11h15</td>
<td>Henk Van Reuler</td>
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<td>Daniele Massa</td>
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<td>Mia Tits</td>
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<td>The Netherlands</td>
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<td>12h00 - 12h15</td>
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<td>Inge Van Oost European Union (33)</td>
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<td>Bart Vandecasteele Belgium (Flanders) (34)</td>
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<td>Georges Hofman Belgium (Flanders) (35)</td>
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<td>Michael Hamell European Union (36)</td>
</tr>
<tr>
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<td>14h30</td>
<td>Kevin Grauwels Belgium (Flanders) (37)</td>
</tr>
<tr>
<td>14h30</td>
<td>14h45</td>
<td>Karin Rather Germany (38)</td>
</tr>
<tr>
<td>14h45</td>
<td></td>
<td>Filip Rys Belgium (Flanders) (39)</td>
</tr>
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<td><strong>16h00</strong></td>
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<td>15h30</td>
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</tr>
<tr>
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<tr>
<td>40 Francesco Montemurro</td>
<td>Italy</td>
<td>In Line Roller Crimper technology in organic vegetables production to mitigate nitrate leaching risk</td>
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<tr>
<td>41 Jacek Dysko</td>
<td>Poland</td>
<td>Use of textile and organic waste mats for soilless cultivation of greenhouse tomato</td>
</tr>
<tr>
<td>42 Othman K. Qadir</td>
<td>United Kingdom</td>
<td>Method using gas chromatography mass spectrometry (GC-MS) for analysis of nitrate and nitrite in vegetables</td>
</tr>
<tr>
<td>43 Koen Cochez</td>
<td>Belgium (Flanders)</td>
<td>The Flemish approach to reduce nutrient losses from soilless horticulture: legislation to practice</td>
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<tr>
<td>44 Karin Rather</td>
<td>Germany</td>
<td>Improvement of N efficiency in vegetable crops to fulfil the demands of water framework directive</td>
</tr>
<tr>
<td>45 Franky Coopman</td>
<td>Belgium (Flanders)</td>
<td>Coordination centre for extension services for sustainable fertilization</td>
</tr>
<tr>
<td>46 Micheline Verhaeghe</td>
<td>Belgium (Flanders)</td>
<td>Optimalisation of fertilisation in vegetable crops to reduce nitrate residues and nitrate leaching to surface- and groundwater</td>
</tr>
<tr>
<td>47 Rodney B. Thompson</td>
<td>Spain</td>
<td>Sensitivity of optical sensors to crop N status of a tomato crop</td>
</tr>
<tr>
<td>48 Rodney B. Thompson</td>
<td>Spain</td>
<td>Sensitivity of optical sensors to crop N status of a melon crop</td>
</tr>
<tr>
<td>49 Joachim Vansteenkiste</td>
<td>Belgium (Flanders)</td>
<td>Life cycle assessment of broadcast and fertigation fertilization systems in open field cauliflower production in Flanders, Belgium</td>
</tr>
<tr>
<td>50 Filip Rys</td>
<td>Belgium (Flanders)</td>
<td>Reducing P₂O₅-leaching from container grown nursery stock: potential of lower P₂O₅-input and Humifirst</td>
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<td>51 Els Mechant</td>
<td>Belgium (Flanders)</td>
<td>NO₃-leaching from Azalea indica on containerfields: effects of current legislatin strategies</td>
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<tr>
<td>52 M. Grazia Tommasini</td>
<td>Italy</td>
<td>Nutrition and water management in the integrated production of Emilia Romagna region (Italy)</td>
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<tr>
<td>53 Henk van Reuler</td>
<td>the Netherlands</td>
<td>Soilless culture of hardy nursery stock in the Netherlands</td>
</tr>
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<td>54 Joachim Vansteenkiste</td>
<td>Belgium (Flanders)</td>
<td>Assessment of root distribution by combining observations of the trench profile method with root length observations</td>
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<tr>
<td>55 Annemie Elsen</td>
<td>Belgium (Flanders)</td>
<td>In search of the optimal N fertigation dose for ‘Conference’ pear trees.</td>
</tr>
<tr>
<td>56 Adriano Sofo</td>
<td>Italy</td>
<td>Soil microbial fertility in olive orchards managed by a set of sustainable agricultural practices</td>
</tr>
<tr>
<td>57 Nadezhda Petkova</td>
<td>Bulgaria</td>
<td>Influence of harvest time on fructans content in the tubers of Helianthus tuberosus L.</td>
</tr>
<tr>
<td>58 Michael Böhme</td>
<td>Germany</td>
<td>Influence of N and K fertilisation and cultivation methods on the yield and essential oil content in thyme</td>
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<tr>
<td>59 Peter Bleyaert</td>
<td>Belgium (Flanders)</td>
<td>Optimisation of the SUSON strategy as a method for sustainable fertilisation in glasshouse butterhead lettuce</td>
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<tr>
<td>Francesco Tei</td>
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<td>Fertigation and winter cover crops as complementary tools for the N nutrition of processing tomato</td>
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<tr>
<td>Greet Verlinden</td>
<td>Belgium (Flanders)</td>
<td>DEMETER: Sustainable and integrated soil management to reduce environmental effects</td>
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<td>Tommy D’Hose</td>
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<td>Soil organic matter management within the legal constraints of the fertilization laws – BOPACT field trial</td>
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<td>Mia Tits</td>
<td>Belgium (Flanders)</td>
<td>Recent evolution and trends in the soil fertility of Flemish vegetable fields (1998-2012)</td>
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<tr>
<td>Laura Agneessens</td>
<td>Belgium (Flanders)</td>
<td>Potential of alternative crop rotations for reducing nitrate leaching losses in intensive vegetable rotations</td>
</tr>
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<td>Jeroen De Waele</td>
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<td>Risk assessment of nitrate leaching in autumn after incorporation of catch crops in spring</td>
</tr>
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<td>Steven Sleutel</td>
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<td>Organic matter fractions and N mineralization in vegetable cropped sandy soils</td>
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<td>Annelies Beeckman</td>
<td>Belgium (Flanders)</td>
<td>Long term effect of organic fertilization strategies on soil fertility, N dynamics and crop yield</td>
</tr>
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<td>Janjo de Haan</td>
<td>the Netherlands</td>
<td>Less organic matter input reduces nitrate leaching and crop yield on a sandy soil in the Netherlands.</td>
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<td>François Lecompte</td>
<td>France</td>
<td>Plant nutritional status and susceptibility to necrotrophic pathogens: just a question of nitrogen?</td>
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<td>Jarinda Viane</td>
<td>Belgium (Flanders)</td>
<td>Removing vegetable crop residues for composting and ensilaging: effects on N, P and organic matter</td>
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<td>Annette Pronk</td>
<td>the Netherlands</td>
<td>Nitrate leaching from vegetable crop residues and the fate of N during composting of leek residues</td>
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<td>Belgium (Flanders)</td>
<td>Crop response of leek on fertilizer N from raw and composted chicken manure in organic horticulture</td>
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<td>Laura Agneessens</td>
<td>Belgium (Flanders)</td>
<td>In situ management of vegetable crop residues for reducing nitrate leaching losses in intensive vegetable rotations</td>
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<tr>
<td>François Orsini</td>
<td>France</td>
<td>Evolution of crop residues nitrogen in lysimeters with N15 in two cultural systems</td>
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<td>Lijuan Yang</td>
<td>China</td>
<td>Effects of Vermicomposts on Tomato Yield and Soil Fertility under Different Amount of Water Irrigated in greenhouse</td>
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<td>Stanislaw Kaniszewski</td>
<td>Poland</td>
<td>Pelletized dry legume plants as fertilizer for vegetable in organic farming</td>
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<tr>
<td>Daniele Massa</td>
<td>Italy</td>
<td>Alternative substrates for overcoming transplanted stress of ornamental plants</td>
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<td>Józef Babik</td>
<td>Poland</td>
<td>New biodegradeable agrofleece for soil mulching in organic vegetable production</td>
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<td>Nikolay Panayotov</td>
<td>Bulgaria</td>
<td>Effect of different rates of nitrogen fertilization on vegetative development and productivity of Cape gooseberry (Physalis peruviana L.)</td>
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<tr>
<td>Tatyana Bileva</td>
<td>Bulgaria</td>
<td>Effects of some organic fertilizers on growth of infested with Xiphinema index grapevines</td>
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<tr>
<td>Rui Machado</td>
<td>Portugal</td>
<td>Effect of nitrogen source on soil nitrate concentration and yield and quality of intermediate-day onions</td>
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<tr>
<td>Dimka Haytova</td>
<td>Bulgaria</td>
<td>Influence of foliar fertilization on the nutrient uptake of zucchini squash (Cucurbita pepo L. var. giromontia)</td>
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<td>Anna Barbara Pisanu</td>
<td>Spain</td>
<td>Survey activities in the area of Sestu (southern Sardinia) aimed at defining the agronomic techniques to reduce the nitrate pollution</td>
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<td>Annelies Beeckman</td>
<td>Belgium (Flanders)</td>
<td>Organic vegetable crop production needs careful interpretation of nitrogen recommendations</td>
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<tr>
<td>Franky Coopman</td>
<td>Belgium (Flanders)</td>
<td>Documenting and environmental adjusting the KNS and other fertilizer systems in horticulture</td>
</tr>
<tr>
<td>Bert Meurs</td>
<td>the Netherlands</td>
<td>Canopy reflection-based N sidedress system for leeks</td>
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<tr>
<td>Veerle De Blauwer</td>
<td>Belgium (Flanders)</td>
<td>Split nitrogen fertilization and in row application in the potato crop</td>
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<tr>
<td>Abdek-Khalek Selim</td>
<td>Egypt</td>
<td>Dynamics of integrated organic and mineral nitrogen applications and their impact on crop performance</td>
</tr>
</tbody>
</table>