

Nature and Urban Wellbeing: Nature-Based Solutions to Societal Challenges

A conference organized by ALTER-Net (European Ecosystem Research Network) and the European Commission under the auspices of the Latvian Presidency

Augustinian Monastery, Ghent, Belgium
18-20 May 2015

Program



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Monday 18th of May 2015

ALTER-Net activities preceding the actual Nature-Based Solutions conference

13:00-16:00 Informal researcher meetings

15.00- On-site registration

16.00-18.00 Mini Training course organized by ALTER-Net on

CONCEPTS OF NATURE-BASED SOLUTIONS

Chair: Maurice Hoffmann, Research Institute for Nature and Forest (INBO) and Head of ALTER-Net Council

- *Adrian Peres, European Commission/DG-RTD: **Nature-Based Solutions – innovating with nature***
 - *Pam Berry, University of Oxford and Expert Group on Nature-Based Solutions and Renaturing Cities: **Outcomes of the Expert Group on Nature-Based Solutions and Renaturing Cities***
 - *Hilde Eggermont, Royal Belgian Inst Nat Sci & Belgian Biodiversity Platform: **Report on the outcomes of the 2014 BiodivERsA workshop on NATURE-BASED SOLUTIONS: framing an emerging concept that may deeply influence future environmental research in Europe***
 - *Chantal van Ham, International Union for Conservation of Nature (IUCN): **Defining nature-based solutions: definitions, related concepts and examples***
 - *Heidi Wittmer, Helmholtz Center for Environmental Research (UFZ): **Concepts and practice of Nature-Based Solutions – inter-disciplinary perspectives***
 - *Thomas Elmqvist, Stockholm Resilience Centre: **Urban nature-based solutions - a global knowledge task***
- Interaction with the audience
- Video "An Urbanized Planet", *Stockholm Resilience Centre (SRC)*

18.30 Welcome reception



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Nature and Urban Wellbeing Nature-Based Solutions to Societal Challenges

A two-day conference organized by ALTER-Net, in collaboration with the European Commission and under the auspices of the Latvian Presidency of the Council of the European Union

see www.alter-net.info

Venue: Augustinus Monastery, Academiestraat 1, Ghent, Belgium, May 19-20 2015, see <http://www.thagaste.be/>

Program Overview

Tuesday, 19 th May 2015							
8.00-9.00	Registration with coffee/tea						
9.00-11.00	Session 1: PLENARY I. Scene setting: Research and Innovation on Nature-Based Solutions (Room Augustinus)						
11.00-11.30	Break						
11.30-13.00	Session 2: PLENARY II. Learning from cases of Nature-Based Solutions in urban contexts (Room Augustinus)						
13.00-14.00	Lunch break						
14.00-15.30	Session 3: Seven parallel sessions						
	Room: Augustinus 3.1 Nature-based solutions should be socially inclusive	Room: Hippo 3.2 Nature, urban health and wellbeing	Room: Monica 3.3 Waterscapes , blue infrastructure and urban health	Room: Nicolaas 3.4 Re-naturing citizens	Room: Carthago 3.5 Biodiversity and businesses , winning partners	Room: Amiticia 3.6 Nature-based solutions for risk management	Room: Library 3.7 Discover the inside of sustainability
15.30-16.00	Break						
16.00-17.00	Session 4: Thematic poster sessions (Ambulatory) - Biodiversity and ecosystem science for Nature Based Solutions - Community health in urban environments and activities - Social aspects and innovations of urban Nature-Based Solutions - Designs, tools and innovative solutions						



17.00-17.30	Break							
17.30-18.00	Session 5: PLENARY III. Highlights from parallel sessions 3 and thematic poster sessions 4 (Room Augustinus)							
19.30-21.00	Dinner in the monastery							
Wednesday, 20st May 2015								
8.30-10.00	Session 6: PLENARY IV. Inter-disciplinary Operational Nature-Based Solutions (Room Augustinus)							
10.00-10.30	Break							
10.30-12.00	Session 7: Seven parallel sessions							
	Room: Augustinus 7.1 Europe's urban health & equity challenge and the Sustainable Development Goals : Is there a nature-based solution?	Room: Hippo 7.2 Access to nature: Environmental justice and socio-economic health inequalities	Room: Monica 7.3 Improving urban health by nature	Room: Nicolaas 7.4 Urban biodiversity for the delivery of ecosystem services	Room: Carthago 7.5 Urban designs and innovations for wellbeing	Room: Amiticia 7.6 Green space and green growth potential	Room: Library 7.7 Thinking urban wellbeing in terms of nature-based agriculture	
12.00-13.00	Lunch break							
13.00-14.30	Session 8: Five parallel sessions							
	ROOM: Augustinus 8.1 Using nature-based solutions to improve health and wellbeing for urban citizens	Room: Hippo 8.2 Open Space enquiries to identify future directions	Room: Monica 8.3 Green infrastructure for nature-based solutions in urban planning	Room: Nicolaas 8.4 Evaluation of recreation and revitalization potential	Room: Carthago 8.5 Is there room for value integration over disciplines?			
14.30-15.00	Break							
15.00-15.30	Session 9: PLENARY V. Highlights from parallel sessions 7 and 8 (Room Augustinus)							
15.30-17.00	Session 10: PLENARY VI. Strategic actions on Nature-Based Solutions (Room Augustinus)							



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PROGRAM

Tuesday 19th May 2015

8.00-9.00 Registration and coffee/tea

9.00-11.00 **Session 1 - PLENARY I**

Scene-setting: Research and Innovation on Nature-Based Solutions

Chairs: Maurice Hoffmann, INBO (ALTER-Net) and Kurt Vandenberghe, EC/DG-RTD

- Opening remarks

Maurice Hoffmann, INBO, Chairman of ALTER-Net Council

Daiga Vilkaste, Director, Nature Protection Department, Latvian Ministry of the Environmental Protection and Regional Development

Kurt Vandenberghe, Director, Climate Action and Resource Efficiency, EC/DG-RTD

Pia Bucella, Director, Director, Natural Capital, EC/DG-ENV

*- Xavier Le Roux, Project Coordinator, BiodivERSA: **European Research Area's contributions to Nature-Based Solutions***

*- Sybille van den Hove, MEDIAN; Institute of Environmental Science & Technology, University of Barcelona: **Transformations towards Sustainability: the role of Nature-Based Solutions***

- Interaction with the audience

11.00-11.30 Break



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11.30-13.00 **Session 2 – PLENARY II**

Learning from cases of Nature-Based Solutions in urban contexts

Moderator: Augustin Berghöfer, The Economic of Ecosystems and Biodiversity (TEEB) for Local Policy, UFZ

Panelists (a total of 10 min. interventions from each)

- *Daniella Radice, City of Bristol*
- *Gheorghe Falca, City of Arad*
- *Pamela Mühlmann, ICLEI – Local Governments for Sustainability*
- *Heidi Wittmer, UFZ Department of Environmental Politics & Natural Capital Germany*
- *Patrick ten Brink, Institute for European Environmental Policy*
- *Cecil Konijnendijk, Swedish Agricultural University & Project 'Green Infrastructure and Urban Biodiversity for Sustainable Urban Development and the Green Economy' (GREEN SURGE)*

Interaction with the audience

13.00-14.00 Lunch

14.00-15.30 **Session 3 – Seven Parallel Sessions**

Session 3/1. ***Nature-based solutions should be socially inclusive***

Organizers/convenors: Dagmar Haase, Humboldt U Berlin and Sigrun Kabisch, UFZ

- *Dagmar Haase, Humboldt U Berlin; Sigrun Kabisch, UFZ: **Introduction***
- *Rik De Vreese, Vrije U Brussel, Human Ecol & Med Sociol Group: **Social Landscape Indicators - a participatory approach to integrated assessment of ecosystem services***
- *Nadja Kabisch, HU Berlin, iDiv & UFZ: **Green space accessibility as an indicator for environmental justice?***
- *Annegret Haase, Dieter Rink, Dagmar Haase, UFZ & Humboldt U Berlin: **Synergies and trade-offs between land use, UES provision and quality of life in the context of urban shrinkage***
- *Kerstin Krellenberg, Juliane Welz, UFZ: **Are nature-based solutions nothing else than adaption measures to climate change?***



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Session 3/2. **Nature, urban health and wellbeing**

Organizer: *Jana Verboom, Alterra*

- *Jana Verboom, Alterra*: **Nature-Based Solutions to multi-faceted health problems in the ageing population: an interdisciplinary complex system approach**
- *Vitalija Povilaityte-Petri, U Mons*: **The increasing importance of aromatic and medicinal plants for the well-being of modern urban communities**
- *Magdalena van den Berg, Dept Public & Occup Health, EMGO Inst Health & Care Res, Vrije U (PHENOTYPE)*: **Visiting green space is associated with mental health: a cross-sectional study in four European cities**
- *Sjerp de Vries, Martin Goossen, Tineke de Boer, Alterra*: **Peace and quiet please! Effects of visitor density on stress reduction by visiting natural areas**

Session 3/3. **Waterscapes, blue infrastructure and urban health**

Organizer: *Jochen Hack, TU Darmstadt*

- *Jochen Hack, TU Darmstadt Inst Hydraul & Water Resources*: **Improving ecohydrological functions of urban areas and urban streams – Extending immission-based approaches to an ESS perspective**
- *Sophie Moinier, Deltares*: **The implementation of Nature Based Solutions in delta cities**
- *Taylor Tyger, Fulbright scholar, Aalto U Helsinki & SYKE*: **Using PPGIS to map cultural ecosystem services related to blue infrastructure in the Helsinki Metro Area: Methods, collaboration, outcomes and implementation**
- *Timo Assmuth, Jari Lyytimäki, SYKE; Antti Simola, VATT; Tarja Pitkänen, THL; Timo Huttula, SYKE*: **Combining green, blue and grey infra for health: Nature-based urban drinking water production by Managed Aquifer Recharge**

Session 3/4. **Re-naturing citizens: Public engagement and social learning for empowerment**

Organizer/chair: *Jiska van Dijk, NINA*

- *Györgyi Bela, Env Soc Sci Res Group/HU*: **Citizen science, social learning, transforming expertise**
- *Thomas Beery, Kristianstad U*: **Outdoor recreation and biodiversity conservation**
- *Hans Keune, INBO, Uta Wehn, UNESCO-IHE Inst Water Educ*: **Citizen observatories focusing on engagement and empowerment aspects**
- *Lina Kusaite, BE*: **Brussels school eco-art education project - "Plant Kingdom"**



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Session 3/5. **Biodiversity and businesses: winning partners**

Organizers/moderators: Johan Lammerant and Hans van Gossum, ARCADIS, Belgium

- *Johan Lammerant, ARCADIS, Be & World Business Council on Sust Dev: **WBCSD initiatives on businesses and natural capital***
- *Hans Van Gossum, ARCADIS: **Biodiversity solutions at an industrial site: a case example with Nike***
- *Debora de Block, Wageningen U: **Opportunities for entrepreneurs in Ecosystem-based Adaptation***
- *Natuurpunt: **A story on good practice examples of business & biodiversity in Flanders***
- *Jolanda Van Schaick, CREM BV: **Working with nature in the business value chain***
- *Miguel Bugalho, Biodiversity Adviser, WWF Mediterranean Program and U Lisbon: **Engaging business in conservation: a case of Payment for Ecosystems Services in a Mediterranean oak woodland***

Session 3/6. **Nature-based solutions for risk management and ecological restoration**

Organizer/chair: David Manning, Newcastle U

- *David Manning, Mark Goddard, Ben Kolosz and Ehsan Jora, Newcastle U/SUCCESS: **Carbon capture gardens: Managing urban soils for the provision of multiple ecosystem services***
- *Eliška Krkoška Lorencová, D. Vačkář, B. Loučková, CzechGlobe - Global Change Res Centre, Acad Sci Czech Republic: **Developing urban adaptation strategies using ecosystem-based approaches: The case of three pilot cities in the Czech Republic***
- *Katalin Török, Anikó Csecserits, Melinda Halassy, Anna Kövendi-Jakó, Imelda Somodi, Hu Acad Sci C Ecol Res; Péter Dezsényi, Deep Forest Ltd., Budapest: **Reconstruction of native habitat in urban industrial area: the Nyíregyháza LEGO project***
- *Sabine Bouché-Pillon, Sébastien Bonthoux, Ecol Nat Paysage/INSA; Marion Brun, CNRS; Francesca Di Pietro, U Rabelais & CNRS: **Urban wasteland trajectories: Forms and informal uses***

Session 3/7: **Invitation to discover the inside of sustainability**

Organizers, moderators and presenters: Hans Smith, Hans Bassing, Tim Horsten, INNERGIE

Goal: the inner approach explained. What is the added value of exploring individual drivers and talents with regard to a mutual and challenging goal of human wellbeing?

Take-away: participants will experience practical tools to discover and strengthen the symbiosis between their internal nature and external project goals and ways of applying them. It will enable them achieving better sustainable results faster.

Contents: The session consists of three parts: a) provisions for insights, b) gamification, c) exchange of best practice.

15.30-16.00 Break



16.00-17.00 Session 4. Parallel Thematic Poster Sessions (plenary, ambulatory)

2-3-min. presentations by authors followed by 2-3 min. moderated Q&A

Theme: Biodiversity and ecosystem science for Nature Based Solutions

Moderators: Marie Vandewalle, UFZ and Erik Stange, NINA

1. Lu Sun, U Copenhagen: **The history and challenges of a disappearing boundary: the case of the greenbelts in Beijing**
2. Natália S. Cunha, Manuela R. Magalhães, Lisbon U: **The Portuguese National Ecological Network - A mapping proposal**
3. Justine Maréchal, Gembloux Agro-Bio Tech, U Liège: **About generalization of the spatial structure of green spaces among different cities**
4. Ton de Nijs, Saskia Ras, Ton Breure, Martijn Thijssen, Ellen Brand, RIVM/Atlas Natural Capital: **The Atlas Natural Capital: Supporting Nature-Based Solutions in Urban Environments**

Theme: Community health in urban environments and activities

Moderator: Kate Irvine, James Hutton Institute

5. Margarita Triguero-Mas, Christopher Gidlow, David Martínez et al., CREAL, Barcelona, U Pompeu Fabra, CIBER Epidemiol Salud Públ, Staffordshire U, U Washington-Seattle: **The Effect of Different Types of Natural Outdoor Environments on People With Poor Mental Health in Catalonia**
6. Margarita Triguero-Mas, David Donaire-Gonzalez, Edmund Seto et al., CREAL-Barcelona, U Pompeu Fabra, CIBER Epidemiol Salud Públ, Ramon Llull U, U Washington-Seattle, Staffordshire U, VUMC, Vytauto Didžiojo U, UC-Berkeley, UCLA, RIVM: **Natural Outdoor Environments and Physical Activity Engagement**
7. Timo Assmuth, SYKE: **Children, pets and nature-based solutions: An eco-anthropological view of urban health**
8. Timo Assmuth, Jari Lyytimäki, SYKE; Antti Simola, VATT; Tarja Pitkänen, THL, Timo Huttula, SYKE: **Combining green, blue and grey infra: Health risks and benefits of nature-based urban drinking water production**

Theme: Social aspects and innovations of urban Nature-Based Solutions

Moderator: Dagmar Haase, UFZ

9. Marion Mehring, Diana Hummel, Stefan Liehr, Alexandra Lux, Inst Social-Ecol Res (ISOE): **Biodiversity and Urban Areas: How a Social-Ecological Perspective Makes a Difference**
10. Corina Basnou, Yolanda Melero, Joan Pino, CREAM, Barcelona: **The Ecosystem Services provided by Green Infrastructure in urban and peri-urban areas: the case of Barcelona**
11. Timo Assmuth, Maija Faehnle, Leena Kopperoinen, Pekka Itkonen, SYKE: **Mind-mapping environmental health (MIME): Perceptions, representations and knowledge in collaborative urban governance**
12. Timo Assmuth: **Nature-Based Solutions to societal problems under the Czars: A gardener, health activist and serf liberator**



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Theme: Designs, tools and innovative solutions

Moderator: Marcus Grant, UWE

13. *OpenNESS and OPERAS projects/Hanneke Wijnja, ECNC et al: Oppla: Latest knowledge about natural capital and ecosystem services*

14. *Marijke Wouters, Ecorem nv: Development of a practical guide and of a specific tool aimed at assessing the environmental capacity of the roads situated in the Brussels Region, Belgium*

15. *Anke Knapen, Pieter De Corte, Wim Andries VLM/Regio Ost (Life + project): 'Green4Grey: Innovative design & development of multifunctional green & blue infrastructure in Flanders grey peri-urban Landscapes'*

16. *Xiaoying Liu, Natureherit Design & Consult: When Green Meets Magnets – GreenMagnets' Plan, a revolutionary open source and research tool for World's Micro Environments.*

17.00-17.30 Break

17.30-18.15: **Session 5 – PLENARY III. Highlights from parallel sessions and poster sessions**

Chairs: Timo Assmuth, SYKE, Hans Keune, INBO

- based on reports from the parallel sessions 3/1-3/7 and moderators of the poster entities 4/1-4/4

- Discussion, wrap-up for next day

19.30-21.00 Dinner in the monastery



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Wednesday 20th May 2015

8.30-10.00 Session 6 – PLENARY IV: Inter-disciplinary Operational Nature-Based Solutions

Chairs: Györgyi Bela, ESSRG (Hungary), Birgit de Boissezon, EC/DG-RTD

- *Eeva Furman, SYKE, OpenNESS project: **Inter-disciplinary perspectives on ecosystem services***
- *Simon Bell, OPENspace Res Centre & Estonian U Life Sci; ALTER-Net and GREENSURGE networks: **Inter-disciplinary perspectives on urban greening***
- *Roderick Lawrence, Inst Human Ecol, U Geneva; WHO Task Force Housing & Health; PHENOTYPE: **Inter-disciplinary perspectives on health and housing***
- *NN, Joint Programming Initiative-Urban: **Tbc***
- *Birgit de Boissezon, Head of Unit, Sustainable Management of Natural Resources, EC/DG-RTD: **Nature Based Solutions to societal challenges: a new R&I policy agenda***
- Discussion

10.00-10.30 Break

10.30-12.00 Session 7 – Seven Parallel Sessions

Session 7/1. ***Europe's urban health & equity challenge and the Sustainable Development Goals: Is there a nature-based solution?***

Organizer: Conor Kretsch, U Nottingham & COHAB Initiative

- *Conor Kretsch, U Nottingham, UK & COHAB Initiative, Ireland: **Cities, nature and human well-being under the 2015 Sustainable Development Goals***
- *Jukka-Pekka Jäppinen, SYKE; Liisa Tyrväinen, Natural Resources Institute Finland; et al: **Nature for Health and Well-Being in Finland – results and recommendations from the Argumenta project Ecosystem Services and Human Health (2013-2014)***
- *Hans Keune, Belgian Biodiversity Platform – INBO; Katrin Goyvaerts, Flemish Agency for Nature and Forest; Benno Geertsma, Natuurpunt: **The science and policy of biodiversity, health and urbanization: experience from establishing a community of practice in Belgium***
- *Patrick ten Brink, Inst Eur Environ Pol: **Health and Social Benefits of Nature and Biodiversity Protection***



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Session 7/2. **Access to Nature: Environmental Justice and Socio-Economic Health Inequalities**

Organizers/moderators: Sjerp de Vries and Carmen Aalbers, Alterra

- *Sjerp de Vries, Alterra: Access to nature, environmental justice and socio-economic health inequalities: exploring the issues*
- *Grazia Zulian, JRC/IES: ESTIMAP-recreation model: an approach for the potential provision of Nature-based recreation opportunities for urban dwellings*
- *Pekka Itkonen, Leena Kopperoinen and Lasse Peltonen, Finnish Environment Institute SYKE: Spatial assessment of distributional environmental justice of water-related cultural ecosystem services*
- *Carmen Aalbers, Tia Hermans, Alterra: Introduction to final discussion, including wrap-up*

Session 7/3. **Improving urban health by nature**

Organizer/chair: Marcus Grant, UWE

- *Ann Uustalu, EC/DG-RTD Health: Horizon 2020 – research on environment and health from a public health perspective*
- *Marcus Grant, UWE: These places are killing us / A systems view of nature's role in supporting human health and wellbeing in cities*
- *Mark Nieuwenhuijsen, C. Gidlow, G. Smith, Hanneke Kruize, J. Maas, M. Jerrett, Peter van den Hazel, Roderick Lawrence, R. Grazuleviciene, Diane v Gent, Centre Res Environ Epidemiol (CREAL)-Barcelona: Positive Health Effects of the Natural Outdoor environment (PHENOTYPE)*
- *Tia Hermans, Alterra, Lidwien Lemmens, RIVM, Annette Postma, Postma Advies: Implementation of green interventions in healthcare and public health: barriers and facilitators*
- *Katarina Ana Lestan, Mojca Golobič, U Ljubljana; Ivan Eržen, Natl Inst Public Health & U Ljubljana: Healthy childhood and active ageing in contemporary cities*

Session 7/4. **Urban biodiversity for the delivery of ecosystem services**

Organizers/chairs: Sonja Knapp and Nina Schwarz, UFZ

- *Sonja Knapp, UFZ: Overview of biodiversity in urban areas*
- *Marco Moretti, Swiss Fed Res Inst (WSL), Community Ecol: Providing insights into links between biodiversity and ecosystem functioning*
- *Angela Hof, U Salzburg, Research Group Urban & Landscape Ecol: How links between biodiversity and ecosystem services can be implemented in municipalities*
- *Dagmar Haase, Humboldt U Berlin: Highlighting gaps in biodiversity-ecosystem services research with insights from the URBES project*
- *Karin Zaunberger, EC/DG-ENV: EU's and global policy perspectives on urban biodiversity*



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Session 7/5. **Urban designs and innovations for wellbeing**

Organizer: *Wolfgang Weisser, Tech Univ Munich*

- *Wolfgang Weisser, Chair for terrestrial Ecol, Dept Ecol & Ecosystem Mgmt, Tech Univ Munich; Thomas Hauck, Dept Open Space Planning, Univ Kassel: **Animal-Aided Design – Bridging the gap between urban planning and nature conservation***
- *Kristin Barbey, Dept Archit, Inst Urban & Landscape Design, KIT Karlsruhe Inst Technol: **The Project Nature: Content Basis for Nature-Orientated, Climate-Friendly Metropolis 2050***
- *Egbert Roozen, VHG Association (The Green City): **How Can We Build Green & Sustainable Cities?***

Session 7/6. **Green space and green growth potential**

Organizers/chairs: *Willem Laermans, Natuurpunt Gent, and Thomas Beery, Kristianstad U*

- *Stefanie Rößler, Juliane Mathey, Karsten Grunewald, Wolfgang Wende, Leibniz Inst Ecol Urban & Reg Dev (IOER): **Multifunctional Urban Green Spaces – Benefits and Implementation Challenges***
- *Willem Laermans, Natuurpunt Gent; Mihai Costica, Naela Costica, Alexandru Ioan Cuza U Iasi, Teodora Koos-Morar, Kalliopi Ntanou, Ioan Ciumasu, INTRAS: **People and urban parks: Searching the new *spiritus loci****
- *Amélie Robert Charmeteau, Jean Louis Yengué, Tours U & UMR CNRS CITERES: **Allotment gardens, a place to meet, walk and learn – Bergeonnerie/Tours case***
- *Thomas Beery, Kristianstad U, Man & Biosphere Health Res Group: **Inspiring the outdoor experience: Does the path through a nature center lead out the door?***

Session 7/7. **Improving urban wellbeing through nature-based agriculture**

Organizer: *Fanny Boeraeve, AgricultureIsLife, U Liege*

- *Fanny Boeraeve, Severin Hatt, Sidonie Artru, U Liège: **Introductory talk: The inextricable link between urban wellbeing and rural areas***
- *Nicolas Dendoncker, U Namur; Rolinde Demeyer, INBO: **Can ecosystem service optimization guide rural land consolidation schemes towards nature-based solutions and improved wellbeing?***
- *Sander Jacobs, INBO: **A trade-off analysis of ecosystem services in Flanders: defining nature-based scenarios***
- *Severin Hatt, Sidonie Artru, AgricultureIsLife, U Liege: **Nature-based agricultural practices for healthier food and environment: the examples of agroforestry and wildflower strips***

12.00-13.00 Lunch



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13.00-14.30 Session 8 – Five Parallel Sessions

Session 8/1. **Using nature-based solutions to improve health and wellbeing for urban citizens**

Organizer/moderator: Chantal van Ham, IUCN

- *Pam Berry, U Oxford: Nature-based solutions: from concept to practice*

- *Joop van Hezik, Nature Assisted Health Foundation: Nature assisted health for people with dementia and their caregivers*

- *Tom Bosschaert and Elke Miedema, Except Integrated Sustainability: Increasing health and wellbeing through effective city design and planning*

- *Ladislav Miko, European Commission - DG-Health and Food Safety: Integrating nature into policy-making to enhance human well-being*

Session 8/2. **Nature-based urban health and wellbeing: 'Open Space' enquiries to identify future directions**

Organizers/moderators: Kate Irvine, James Hutton Institute, Marcus Grant, UWE and Timo Assmuth, SYKE

Aim/Goal: To identify new inroads to nature-based urban health and wellbeing.

Approach: All participants shape and contribute to the outcome through an innovative and open format for discussion. Building on the collective experience of those attending this session and of the conference as a whole, we seek to encourage an agenda that responds to emergent dominant conference discourses.

Process: (i) Introductory briefing; (ii) collectively set out an agenda to chart visions for and paths to future (including obstacles and opportunities). (iii) small group work to link knowledge - scientific and experiential - with practice; semi-structured expert opinion will complement free discourse.

Outcomes: (i) Better clarity for future direction for chose foci; and (ii) Provide material for further reflection in the final plenary and beyond.

Session 8/3. **Green infrastructure providing nature-based solutions in urban planning**

Organizers: Leena Kopperoinen, SYKE, Erik Stange, NINA, with support of OpenNESS urban joint research activity (UAB; Technalia, Spain; Slovak Acad Sci; NINA; SYKE; VISTA Analyse A/S, U Helsinki)

- *Erik Stange, Norwegian Inst Nature Research NINA: Oslo's Blue Green Factor: how planning based on a NATURE-BASED SOLUTIONS for storm water management can enhance other ecosystem services*

- *Jakub Kronenberg, U Lodz: Why are nature-based solutions difficult to accept in a post-socialist city?*

- *Linda Zardo, Davide Geneletti, U Trento: Assessing the benefits of ecosystem-based climate adaptation in urban areas*

- *Maaïke Breugelmans, City of Ghent: Green-blue infrastructure to moderate the urban heat island effect in Ghentl*

- *Leena Kopperoinen, Finnish Environment Institute SYKE: Suggestions for the way forward in applying Nature-Based Solutions in urban planning based on OpenNESS urban case studies' joint research activity*



Session 8/4. **Evaluation of recreation and revitalization potential**

Organizers/chairs: *Grazia Zulian, JRC/IES, Inge Liekens, VITO*

- *Grazia Zulian, JRC/IES et al.*: **ESTIMAP - framework for the assessment of Ecosystem services at EU level**
- *Tristan Pett, Durrell Inst Conserv & Ecol, U Kent*: **Creating a buzz in the city: an experimental cross-city comparison of the public's preferences and values for conserving urban pollinators**
- *Inge Liekens, VITO*: **Planning for nature based solutions in cities with the nature value explorer**
- *Irene Bouwma, Alterra, Anne Gerdien Prins, Ed Dammers, PBL; Hans Farjon, WOT; Arjen van Hinsberg, Marijke Vonk, Jaap Wiertz Henk van Zeijts, PBL*: **Nature based solutions in PBL's European Outlook - How will they change nature and landscape in Europe?**

Session 8/5. **Is there room for value integration over disciplines?**

Organizer: *Kati Vierikko, U Helsinki*

- *Kati Vierikko, U Helsinki (chair)*: **Opening words**
- *Sander Jacobs, INBO*: **Value integration in ecosystem service approach**
- *Nicolas Dendoncker, U Namur*: **Integrating values of Ecosystem Services for sustainability – Evidence from the Belgium Ecosystem Services community (BEES) of practice**
- *Marion Mehring, Diana Hummel, ISOE*: **New Ways for Human Well-being in Urban Contexts? A framework of a trans-disciplinary research process**
- *Birgit Elands, Wageningen U*: **Towards diverse and sustainable governance of cities – Biocultural diversity in 20 European cities**

14.30-15.00 Break

15.00-15.30: **Session 9: Plenary VI. Highlights from parallel sessions 7/1-7/6 and 8/1-8/6**

Chairs: *Timo Asmuth, SYKE and Kate Irvine, James Hutton Institute*

- *Synthesizing short responses to structuring questions by reporters of the parallel sessions 7/1-7/7 and 8/1-8/5*



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15.30 – 17.00 **Session 10: Plenary VII – Strategic actions on Nature-Based Solutions**

Panel debate

Moderator: Per Mickwitz, SYKE Research Director & EEA Scientific Committee

- *Kurt Vandenberghe, Director, European Commission, DG-RTD*
- *Laura Höjjer, Research Director, Finnish Ministry of the Environment*
- *Marcus Grant, WHO Collaborative Centre for Healthy Urban Environments*
- *Hans Keune, Research Institute for Nature and Forest (INBO) & Belgian Biodiversity Platform*
- *Paola Albrito, United Nations Office for Disaster Risk Reduction (UNISDR)*
- *Radek Klima, City of Prague*

Interaction with the audience

Final remarks: Outcomes and implications for follow-up work

- *Maurice Hoffmann, INBO*
- *Adrian Peres, EC/DG-RTD*



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Practical information

Wifi password

Network: Hippo

Password: tolle lege bernard

ICT support

Arno Covers 0474 67 17 84

Sono 0475 69 49 48

Travel

Train: schedule check on <http://www.belgianrail.be/en/Default.aspx>

Taxi: V-tax 09 222 22 22

Taxi Gent 09 333 33 33

Gentse taxi service 09 345 45 45

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