

**IEES / ZHAW Symposium 2012**

**Program Update Dec. 6, 2011**

## **Eco-Cities and Ecological Engineering** new solutions through transforming traditional ways of thinking

*Jan. 26-28, 2012, Zurich University of Applied Sciences, Waedenswil, Switzerland*

Our world is approaching a phase where several resources will become scarce at the same time: energy, nutrients, water availability, space... The wealth and well-being of coming generations will depend on us being able to adapt our economies to the finite world that our planet actually is.



Waterblad: Art and engineering combined for floodwater retention in The Netherlands:  
Designer: Jeroen van Westen, <http://www.jeroenvanwesten.nl/>

Transforming today's cities into sustainable eco-cities is one of the main adaptations that will be necessary. Ecological engineering offers a holistic approach, a wide spectrum of possible solutions and a wealth of business opportunities. It might well become one of the key factors in this transformation process.

There is a major obstacle against this transition: conventions and paradigms in the minds of planners, engineers, architects and politicians. In the past 200 years, they have been the drivers of an unprecedented success story in our societies. However, today these inherited ways of thinking increasingly represent barriers to new and more sustainable approaches!

This symposium actively addresses these barriers and searches for ways—based on existing positive examples—to proceed beyond them. It will deal with relevant issues from water management to urban development, industrial ecology, and source-separation.

Six keynote speakers, each at the cutting edge in their specific fields are offering insights and inspiration into how ecological engineering approaches can become reality. During the world-café rounds and the workshops you will get into intensive exchanges with professionals from a variety of fields who share a deep interest in promoting ecologically engineered solutions.

We live in a world where cities, regulations and minds seem to be built in concrete. We are looking for ways to seed and nurture ecological engineering.

## Target audience

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- engineers, entrepreneurs, architects and researchers who are developing ecological engineering concepts and are willing to share their insights and experiences about the obstacles they encounter
- people from businesses or from local, regional or national administrations interested in solutions that are outside the trodden paths they are familiar with
- professionals from all kinds of fields or politicians searching for innovative and holistic solutions to problems in an open-minded way

## “Cases” Workshop – Call for contributions

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The “Cases” workshop will be a bit different from other conferences. The idea is to share examples for successful or unsuccessful (if people dare), in order to learn about the factors that lead to successful projects and about the barriers that sometimes lead to failures. The workshop tracks will be held on Friday morning and will last 2.5 hours with about 4-5 presentations per track. There will be ample time for discussion. The presentations should focus on practical experiences in a project.

Currently, these six tracks are confirmed:

1. **Urban Farming & Aquaculture** (Chair Prof. Ranka Junge, ZHAW)
2. **Sustainable Sanitation / Ecological Sanitation** (Chair N.N.)
3. **Sustainable Water Management / Watershed Management** (Chair N.N.)
4. **Towards Building Eco-Cities** (Chair Petra Hagen, ZHAW)
5. **Renewable Energy in EcoCities: examples and future potential** (Chair: Prof. Markus Hubbuch, ZHAW)
6. **Role and options for the private sector** (Organized by cewas, Chair: Dr. J. Heeb, IEES)

If you are interested to contribute a case study to one of these tracks, or organize an additional workshop track please send an abstract (1/2 A4 page) **until Dec. 15, 2011** to: [andreas.schoenborn@zhaw.ch](mailto:andreas.schoenborn@zhaw.ch).

The abstracts will be processed as we receive them.

**Program (Version 1.03 of Dec. 6, 2011)**

<b>Thursday January 26, 2012</b>	<b>Eco-Cities and Ecological Engineering</b> Aim: inspiration, broad view, warm-up
11:00-13:00	Shuttle bus from parking area "Gerenu"
12:00-13:00	Registration and coffee
13:00 – 13:10	Welcome address
13:10 – 14:20	<b>K1: Paradigm change - when does it happen? Experiences from historical research</b> Dr. Daniele Ganser, University of Basel, Switzerland <a href="http://www.danieleganser.ch">http://www.danieleganser.ch</a>
14:20 – 15:00	<b>K2: Biomimicry – from organisms to the built environment. New ideas for the future.</b> Anna Maria Orru, Eco-Architect, Sweden <a href="http://www.annamariaorru.com/">http://www.annamariaorru.com/</a> , <a href="http://www.fo.am">http://www.fo.am</a>
15:00 – 15:25	Break
15:30 – 16:30	<b>World Café Step 1: Discovery</b> Discovering positive examples and frameworks Facilitator: Gunther Geller <sup>1</sup> , IÖV, <a href="http://www.ioev.de">http://www.ioev.de</a>
16:30 – 17:10	<b>K3: Shaping the future of urban water management</b> Dr. Tove Larsen, Engineer, EAWAG, Switzerland <a href="http://www.eawag.ch/about/personen/homepages/larsen/index_EN">http://www.eawag.ch/about/personen/homepages/larsen/index_EN</a>
16:10 – 17:50	<b>K4: The shift from Eco-Efficiency to Eco-Effectiveness</b> Andreas Schläpfer, Dipl. Ing. FH, Representative EPEA Switzerland, <a href="http://www.epeaswitzerland.com/">http://www.epeaswitzerland.com/</a>
17:50 – 18:20	"Cases" Workshop introduction short presentations of the cases for the workshops of Friday
Starting at 18:20	Apéro (a Swiss cocktail reception)
Starting at 19:30	Dinner at ZHAW Grüental

<sup>1</sup> Gunther Geller is president of the „Ingenieurökologische Vereinigung Deutschland“ (IÖV), a sister organization of IEES

<b>Friday Jan. 27, 2012</b>	<b>Eco-Cities and Ecological Engineering</b> Aim: Going practical
7:30 – 8:00	Shuttle bus from parking area “Gerenu”
7:30 – 8:00	Warm-up and coffee
8:00 – 8:45	<b>K5: Art as an icebreaker for sustainable technology</b> <a href="http://www.dreiseitl.de">Herbert Dreiseitl</a> (landscape architect, Germany) <a href="http://www.dreiseitl.de">http://www.dreiseitl.de</a>
8:45 – 9:00	Break
9:00 – 11:30	<b>“Cases” Workshop</b> (call open until Dec. 15!)
11:30 – 13:00	Lunch break
13:00 – 15:15	<b>World Café steps 2 and 3: The dream / vision and the design</b> Facilitator: <a href="http://www.ioev.de">Gunther Geller</a> , IÖV, <a href="http://www.ioev.de">http://www.ioev.de</a>
15:15 – 15:30	Break
15:30 – 16:15	Plenary, reports from “Cases” Workshop tracks
16:30 – 17:15	<b>K6: Planning Eco-Cities</b> (working title) <a href="#">Joachim Eble</a> (architect, Germany)
17:15 – 17:30	Good-bye address, end of symposium
Starting at 18:30	<b>IEES general assembly 2011/2012</b> , <a href="http://www.iees.ch">http://www.iees.ch</a> (IEES members and interested participants)
<b>Saturday Jan. 28, 2012</b>	<b>Ecological Engineering Field trip (optional)</b> Aim: Demonstration and discussion of real examples
Exact time to be defined	The field trip will lead to two or three ecological engineering projects in Switzerland. We are currently evaluating: an earth house settlement, a high-tech zero energy office building and a constructed tropical environment.  The final decision will be made by the end of December 2011. Please indicate your interest in your registration.

*Remark: The timing allows booking flights from Thursday – Saturday (lower prices). It also allows external guests from within Europe to travel on the day of the symposium.*

## World Café

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In small groups gathered around tables we will get to know each other, exchange experiences and work on ideas and approaches for future EcoCities. Using the combined methods of "world cafe" and «Appreciative Enquiry» we will first look at the cities of today and existing positive examples within them. In the second and third step we will develop visions and designs and agree upon first steps towards future EcoCities.

Gunther Geller (president of IÖV, the German sister of IEES) as an experienced facilitator in this method will guide us through this process.

## Sponsors

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## Symposium fees

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Symposium fee (January 26 and 27, 2012)	CHF 250.–
Symposium fee (IEES and IÖV members)	CHF 180.–
Students (with valid student ID)	CHF 120.–
Dinner, Thursday January 26, 2012	CHF 60.–
Field trip, Saturday January 28, 2012	to be determined

The symposium fee includes documentation, coffee and snacks during breaks, and lunch on Friday January 27, 2012. Booking of separate days is not possible.

You will receive a bill according to your registration.

## Accommodation

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Accommodation is not included in the symposium fee. A list of hotels and hostels in and around Wädenswil is available at <http://www.iunr.zhaw.ch/iees2012>

## Registration

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Please register online at <http://www.iunr.zhaw.ch/iees2012> until **January 8, 2012**. Your registration is only valid after confirmation by the conference secretariat.

## Venue

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The Symposium is to be held at the Institute of Natural Resources Science in Waedenswil, which belongs to the Zurich University of Applied Sciences ZHAW.

Waedenswil is a picturesque town of about 20.000 inhabitants on the south shore of the Lake of Zurich. The Grüental Campus, where the symposium takes place, can be easily reached by public transport.

Please check <http://www.lsfm.zhaw.ch/en/lsfm/about-us/locations.html> for information on how to find the campus Grüental at Waedenswil.



Campus Grüental of ZHAW Waedenswil, overlooking the Lake of Zurich

## Contact

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### Conference secretariat:

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