



WORLD GREEN ROOF CONGRESS
15th – 16th September 2005
Basel • Switzerland

GREEN ROOF WEEK
12th – 17th September 2005

Green Roofs – an opportunity and a challenge to design healthy cities. The Swiss Association of Green Buildings SFG and the University of Applied Sciences Wädenswil is to host the World Green Roof Congress 2005 in Basel. The city of Basel is particularly appropriate for the congress as it was one of the pioneers of governmental promotion and funding, and has also promoted research on green roofs. The event will be organised together with the International Green Roof Association IGRA, Green Roofs for Healthy Cities GRHC, and the Geographical Institute of the University of Basel.

Experts from all over the world will discuss the opportunities provided by the combination of urban planning, and ecological construction with green roof strategies and solutions. The focus will be on aspects such as urban heat islands, thermal insulation, storm water management, benefits for biodiversity, contributions to high quality urban living and cost savings with respect to the lifecycle costs of buildings. The conference will highlight current thinking and future trends in innovative green roof solutions and research, and is intended to inform current public and private sector decision-making.

The Green Roof Week (12th – 17th Sept) will include a green roof course and also a wide-ranging excursion programme, from one- to three-day trips, showing examples of good practice on green roofs in Switzerland and the surrounding area of Basel.



Program	Mon 12th Sept	Tue 13th Sept	Wed 14th Sept	Thu 15th Sept	Fri 16th Sept	Sat 17th Sept
World Green Roof Congress/Green Roof Week						
Congress						
Pre-Program						
Main Programm						
Trade Show						
Training Course (Theory + Application)						
Green Roof Training Course (Theory)						
Green Roof Training Course (Application)						
Excursions						
3-day (Switzerland, Basel)						
2-day (Switzerland, Basel)						
2-day (Switzerland, Basel)						
1-day (Basel-City)						
1-day (Basel-City)						
1-day (Basel and Surrounding)						
1-day (Basel and Surrounding)						
Guided Tours (Short Excursions)						
Guided Tours in Basel						



The congress will provide simultaneous translation.

Wednesday 14th Sept

14.00–19.00 hrs

REGISTRATION

University of Basel, Kollegiengebäude

18.00–20.00 hrs

WELCOME-APÉRO

University of Basel, Kollegiengebäude

Thursday 15th Sept

08.00–09.00 hrs

REGISTRATION AND

WELCOME-COFFEE

University of Basel, Kollegiengebäude

Thursday 15th Sept

09.00–10.00 hrs

OPENING SESSION

Barbara Schneider

Regional Councilor Canton Basel-Stadt
Minister of Civil Works, Switzerland

Prof. Dr. Rolf Grabherr

Head of University of Applied Sciences Wädenswil,
Switzerland

Dr. Stephan Brenneisen

University of Applied Sciences Wädenswil,
Swiss Green Building Association, Switzerland

Aart Veerman

International Green Roof Association, Netherlands

Steven Peck

Green Roofs for Healthy Cities, Canada

Dr. Paolo Abram

European Federation of Green Buildings, Italy

10.00–10.30 hrs

KEYNOTE PRESENTATION

Biotope City

Prof. Dr. Helga Fassbinder

Technical University Eindhoven, Netherlands

10.30–11.00 hrs

Coffee Break



Thursday 15th Sept

11.00–12.30 hrs

SESSION 1A: SUPPORT PROGRAMMES FOR GREEN ROOFS

Erlebbar Dachbegrünungen in Linz

Eduard Maurer

Stadtplanung Linz, Abt. Entwicklungsplanung,
Austria

Green roofs and Urban Biodiversity:

UK + CH Science and Technology transfer project

Dusty Gedge

Livingroofs.org, UK

Kampagnen zur Förderung von Dachbegrünungen in Basel

Reto Locher

Comm-Care, Stiftung Natur & Wirtschaft,
Switzerland

Der Gründachmarkt in Deutschland – Marktanalyse, Potenziale, Fördermöglichkeiten

Fritz Hämmerle

Fachvereinigung Bauwerksbegrünung e.V.,
Germany

SESSION 1B: PLANTS AND VEGETATION FOR GREEN ROOFS

Wie bringen wir Artenvielfalt auf extensiv begrünte Dächer?

Johannes Burri

Fenaco AG, Switzerland

Sedum für Dachbegrünungen

Daniel Labhart

Daniel Labhart Gärtnerei, Switzerland

Wählerische Vegetation: Einfluss von Substratart und -dicke auf die langfristige Entwicklung von Wildpflanzenarten auf Flachdächern

Dr. Dieter Ramseier, Bettina Kahlert

Geobotanisches Institut ETH Zürich,
Switzerland

Die Verwendung von Mykorrhiza in der Dachbegrünung

Meinrad Müller, Tobias Schmid

Otto Hauenstein Samen AG, GeoVerde AG,
Switzerland

12.30–14.00 hrs

Lunch



Thursday 15th Sept

14.00–15.30 hrs

SESSION 2A: CASE STUDIES: CONCEPTS FOR DESIGN AND PLANNING

Das DaimlerChrysler Projekt Potsdamer Platz, Berlin – Planung, Ausführung, Analyse der Gehölzverwendung

Daniel Roehr, Susanne Neubert

Landschaftsarchitekt, Ing. Agr. Gartenbau, Germany

Living Architecture: Californian Case studies of Green Roofs

Paul Kephart

Rana Creek Restoration Habitat Centre, USA

Objektbegrünung mit interdisziplinärem Konsens

Lutz Volkmann

Vorsitzender Zentrum für Bauwerksbegrünung Berlin Brandenburg, Germany

Novartis Campus – Landschaftstransformation auf die neue «Stadt des Wissens» in Basel

Dr. Stephan Brenneisen

Hochschule Wädenswil, Switzerland

SESSION 2B: STORMWATER MANAGEMENT WITH GREEN ROOFS

Die Quantifizierung des Dachbegrünungspotenzials verschiedener Bebauungstypen in Karlsruhe durch den Einsatz von Fernerkundungsdaten

Sabine Steusloff

Institut für Geographie und Geoökologie I Universität Karlsruhe, Germany

Urban water resource management by extensive green roof systems

Prof. Dr. Manfred Köhler

Fachhochschule Neubrandenburg, Germany

Dachbegrünung am Potsdamer Platz und die Auswirkungen auf ein «Urbanes Gewässer»

Gerhard Hauber, Marco Schmidt

Atelier Dreiseitl, Technische Universität Berlin, Germany

15.30–16.00 hrs

Coffee Break

16.00–17.00 hrs

KEYNOTE PRESENTATIONS

The Conflict around Beauty – Aesthetics between Nature and Architecture

Prof. Dr. Bernd Lötsch

General Director Natural History Museum Vienna, Austria

Earth Houses – Living under the ground

Peter Vetsch

Architekturbüro Peter Vetsch AG, Switzerland

19.30 hrs

CONGRESS DINNER



Friday 16th Sept 2005

09.00–10.30 hrs

SESSION 3A: HABITATS ON THE ROOF: ECO SYSTEM – BIODIVERSITY – NATURE CONSERVATION

Naturschutz auf dem Dach: Bodenbrütende Vögel

Nathalie Baumann

Hochschule Wädenswil, Switzerland

Green Roofs for Biodiversity – Designing Green Roofs to meet targets of BAP (Biodiversity Action Plan) species

Gyongyver Kadas, Dusty Gedge

Royal Holloway University London, UK

Design and Biodiversity. A Brown Field Roof in Malmö, Sweden

Mårten Setterblad, Dr. Annika Kruise

Swedish University of Agricultural Sciences/ City of Malmö, Sweden

Langzeitentwicklung extensiver Dachbegrünungen: Eignen Sie sich als Dauerlebensraum für die Bodenmeso- und -makrofauna?

Dr. Tillmann Buttschardt

Institut für Geographie und Geoökologie I Universität Karlsruhe, Germany

SESSION 3B: GREEN ROOF SUBSTRATES: WATER BALANCE, STOCKFLOW

Greenroof evaporation and transpiration rates/ Quantifying acid rain buffering capacity of 2 commercially available greenroof media

Dr. David Beattie, Dr. Robert Berghage

The Pennsylvania State University, USA

Green Roof Water Recycling System GROW

Christopher Shirley-Smith

Imperial College London, UK

Wasserhaushalt und Abflussverhalten von Gründächern

Prof. Dr. Stephan Roth-Kleyer

Fachhochschule Wiesbaden, Germany

The interaction between water and energy of greened roof

Marco Schmidt

Technische Universität Berlin, Germany

10.30–11.00 hrs

Coffee Break



Friday 16th Sept 2005

11.00–12.30 hrs

**SESSION 4A: PLANNING, MAINTENANCE AND
QUALITY CONTROL OF GREEN ROOFS**

Unterhalt und Pflege extensiv begrünter Dächer

Markus Schindelholz, Jörg Zumstein

Sarnafil AG, Switzerland

Schrägdachbegrünungen

Roland Appl

ZinCo GmbH, Germany

Qualitätssicherung von Dachbegrünungen in

Österreich: ein dreistufiges Modell

Herbert Eipeldauer

Verband für Bauwerksbegrünung, Austria

Prüfung von Dachbahnen auf Wurzel- und
Rhizomfestigkeit – verschiedene Verfahren im
Vergleich

Martin Jauch

Fachhochschule Weihenstephan, Germany

**SESSION 4B: VISIONS OF GREEN AND
HEALTHY CITIES**

Estimates of air Pollution mitigation with green
plants and green roofs using the UFORE Model

Beth Anne Currie

Adaptation and Impact Reseach Group Environ-
ment Canada, Toronto, Ontario

Homes for Green Roofs: a challenge for British
housing

Matthew Frith, James Farrell

Peabody Trust, Greater London Authority, UK

Vegetated roofs in Sweden: green revolution or
green image?

Tobias Emilsson

Swedish University of Agricultural Sciences,
Sweden

The potential for Green roof systems in Australia

Dr. Raelene Mibus

South West Institute of Technical & Further
Education, Australia

12.30–13.45 hrs

Lunch



Friday 16th Sept 2005

13.45–15.15 hrs

SESSION 5A: SPATIAL PLANNING AND ECONOMICAL ASSESSMENT OF GREEN ROOFS

Bewertung von Dachbegrünungen in der Eingriffsregelung: Analyse deutscher Verfahren und ihrer Anwendung

Stefan Zeller

Optigrün international AG, Germany

Gründächer als Baustein nachhaltiger Architektur

Maik W. Neumann

Neumann – Architekten Stuttgart, Germany

Wirtschaftlichkeit von Dachbegrünungen

Sven Schönemann

Landschaftsarchitekt, Switzerland

Benefits and Costs of Green roofs in the City scale

Hitesh Doshi

Ryerson University Toronto, Canada

SESSION 5B: GREEN ROOFS AND ENVIRONMENTAL EDUCATION

Scandinavian Green Roof Institute:
Swedish green roof research and environmental education – an Overview

Louise Lundberg

Scandinavian Green Roof Institute
Augustenborg, Sweden

Living Roofs: a catalyst for building communities

Jane Riddiford

Global Generation, UK

Evaluation of the first Green Roofs in the District of Xochimilco in Mexico City after 15 months

Tany Müller Garcia

Roofgreening, Mexico

An International Call for the Greenroof Projects Database

Linda S. Velazquez

Greenroofs.com, Publisher and Green Roof Consultant, USA

15.15–15.45 hrs

Coffee Break

15.45–16.15 hrs

KEYNOTE PRESENTATION

Whole Life cost Analysis of Green roof Systems

Brad Bamfield

The Solution Organisation Ltd, Chairman The Whole Life Cost Forum, UK

16.15–17.00 hrs

**PLENARY SESSION:
SUSTAINABLE CITY DEVELOPMENT**

18.00–20.00 hrs

GOOD-BY-APÉRO



Keynote Presentations

Prof. Dr. Helga Fassbinder

Technical University Eindhoven (Netherlands): Biotope City

Global warming and urban heat islands with consequences for city dwellers have been topical for some time – so why aren't "Green Cities" already the norm? The model BIOTOPE CITY is an invitation to play a "serious game" (Goethe, Epirrhema): to integrate all of the existing approaches to sustainable city construction and planning within a self-sustaining complete system with minimal external effects, known as: the Biotope. This Biotope City will represent a new kind of beauty and ensure a place for sustainable construction in our hearts.

Prof. Dr. Bernd Lötsch

General Director, Natural History Museum, Vienna (Austria): «The Conflict around Beauty – Aesthetics between Nature and Architecture»

Premiere of the audio-visual show by Prof. Dr. Bernd Lötsch for the World Green Roof Congress in Basel

Are there inborn elements in our aesthetics – the vocabulary of beauty – to which people from all cultures respond? Or are people not drawn back and forth between the fascination of the artificial and a longing for what is natural – between geometry (which may be 'above their heads') and the organic (a sort of 'reminder of nature and vitamins for the soul')? Why does the artist and green roof pioneer Hundertwasser demonise straight lines as 'ungodly'? What is the difference between rhythm and

stereotyping? Is there such a thing as «phytophilia» (longing for plants), as human ethologists postulate?

Warning to all architects: the insights of the urban ecologist Prof. Bernd Lötsch, combative environmental scientist and General Director of the Natural History Museum in Vienna, could endanger your health!

Peter Vetsch

Architect (Switzerland): Earth houses – living under the ground

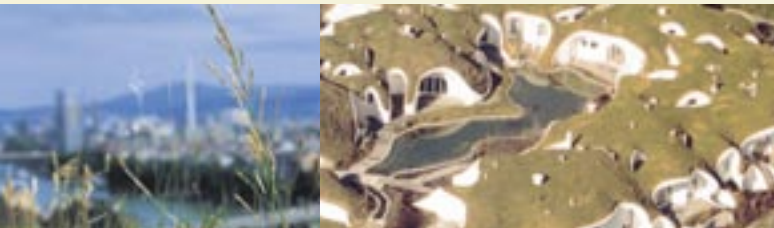
Peter Vetsch has built more than 40 earth houses of many different kinds since 1974. He will tell us about his broad experience of roof greening, using the premise that buildings should be integrated as completely as possible into their surroundings and landscape, and that we should return to nature a good part of what we steal from her when we build.

Brad Bamfield

The Solution Organisation (UK): Whole Life Cost Analysis of Green Roof systems

Brad is a lively, interesting and often controversial speaker. He is Chairman of the UK's Whole Life Cost Forum and acknowledged as one of the most knowledgeable «experts» on whole life costs and sustainability.

In working with his clients, Brad concentrates on generating profits for their organisations, and in his presentation he will cover; 'The meaning of Whole Life Costs and the relationship between Whole Life Costs and Sustainability'. Furthermore, he will focus on the integration of capital and revenue costs – is it really possible? Supply chain delivery of Whole Life Cost information and analysis will be discussed as well as: 'Whole Life Costs – the benefits and effect on profits'.



Excursions

The excursion programme provides opportunities to visit different well-known, extraordinary green roofs in Switzerland and especially in Basel. These include a 90- year old orchid meadow at the «Moos» lake-water plant in Wollishofen (Zurich) as well as new green roofs on the first building of the Novartis Campus complex (the work of award-winning Architects Diener & Diener) and on buildings designed by other award-winning architects, Herzog & De Meuron and Zwimpfer Partner Architects. Other types of green roofs can be visited at test plants and specially developed green roofs on animal sheds can be viewed (for further details see the excursion programme at www.greenroofcongress.ch).

Green Roof Course

This course is about sustainable construction with a focus on green roofs. The topics are interesting for experts such as architects, planners, horticulture experts, landscape architects, and also for private individuals and employees of environmental agencies and organizations. Participants analyse, discuss and contrast different types of green roofs, as well as the technologies and ecological functions of green roofs. The practical part shows examples of green roofs, the materials used, and procedures and problems encountered during construction and maintenance.

Convenor: Helga Salchegger, Landscape Designer and Green roof expert Technical University Laimburg, Italy (German)
Paul Early, Civil Engineer and Green roof expert London, UK (English)

Guided Tours

The daily tours during the Green Roof Week offer participants a brief specialised insight into roof greening and include visits to two green roofs. Details of the programmes and registration at www.greenroofcongress.ch

Main Sponsors



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Contact details

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