

Sustainable Urban Development

- Interactive development of technical infrastructure and vegetation

Course no.: 65350020

Time allowed for entries: 30.06.2006

24.08.2006 - 25.08.2006

Bergen, Norway



COST action C15 "Technical Infrastructure and Vegetation"

Vegetation plays a vital role in the urban environment. Unfortunately it can also create problems by causing damage to technical infrastructures such as sewage pipes, roads, railways and buildings.

The damage is often the result of the restriction of the vegetation to a small growing niche in the competition for space with technical infrastructures. If such conflicts cannot be identified at an early stage, and every effort made to prevent their occurrence, they can lead to disruption of services, great expense and damage to the environment.

All living organisms have basic needs for a good life, so have trees. They need air, sun/light and they have a basic need for water and nutrients. If we do not provide these elementary needs, nature will find its own way of providing this. Trees have an impressive way of sniffing its way to water, and often find it in our sewage and stormwater pipes.

Good living environments with healthy trees and vegetation must be based on close cooperation between architects and engineers, between green and blue values.

The conference is based on a yearlong work initiated and financed by EUs COST office. The main objective of the Action is to improve methods and technology related to the coexistence of technical infrastructure and vegetation in European cities and to prevent potential problems arising from their interaction, by an inter-disciplinary approach between research and development units within technology, economics and biology.



The international conference will focus on and present the latest research results and present good examples on how things have been managed and operated. The Conference is a stimulating opportunity for researchers, planners and technicians to explore key issues and future prospects of urban development.

The Cost C15 contains members from the following countries:

- Denmark
- Finland
- France
- Germany
- Hungary
- Italy
- Norway
- Sweden
- The Netherlands
- United Kingdom
- Portugal
- Switzerland

"Fløisbanen" brings us 320 m above sea level up to ...

... "Fløien Folkerestaurant"

24.08.2006

Thursday 24th of August

08:30 Registration

Chairman: Asle Aasen, City of Bergen

09:00 **Opening**

by Lisbeth Iversen, City Council, Bergen

09:15 **European trends and strategies for sustainable urban development**

with special focus on blue/green values - waterscapes and street scapes in urban areas.

Designing and planning Waterscapes to improve city life

Landscape Arch. Dieter Grau, Atelier Dreiseitl

09:45 **Strategies for urban development in Bergen**

with focus on residential areas, industry, harbour, transport and impact on blue/green values

Head of Division Mette Svanes, Area Planning Division, City of Bergen

10:15 Coffee break

10:45 **COST Action C15: The Action for crosswise communication**

The practitioner - researcher and green - blue - grey etc. perspective

Håkan Schroeder, SLU and Chairman Cost C15

11:00 **Integrated planning for water and parks department**

Win-win situation for water and park management

Arne Mattson, City of Malmö

11:30 **Bryggen - on the World Heritage List since 1979**

Saving historic buildings and infrastructure: The need for active ground water management.

Introduction to the guided tours to the historic site of Bryggen

Einar Mørk (Foundation Bryggen) Hans de Beer (Geological Server of Norway)

12:00 Lunch and guided tour to Bryggen

14:00 **Utilities and Urban Vegetation**

Root intrusion in sewage pipelines - an increasing maintenance problem?

Keynote speaker Örjan Ståhl, SWECO

14:30 **Root penetration in sewers: Causes, tests and prevention**

A study of modern plastic and concrete sewer pipes, lack of resistance to root penetration

Don Ridgers, Thames Water Utilities

- 15:00 **Root intrusion in sewage and storm water pipes, a problem?**
From a manufacturers point of view?
Terje Lunder, Trelleborg Forsheda Pipe Seals
- 15:30 Coffee break
- 16:00 **Water balance in urban development - accounting for evapotranspiration**
Professor Dr. Raimund Herz, Dresden University of Technology
- 16:30 **Sustainable tree management in Osnabrück**
From a park department point of view
Klaus Schröder, City of Osnabrück
- 16:30 **Sustainable tree management in Osnabrück**
From a park department point of view
Klaus Schröder, County of Osnabrück
- 19:00 Dinner at Fløien Restaurant

25.08.2006

Friday 25th of August

- 09:00 **Functional ecological storm water management with good architectures design in urban areas**
Thierry Maytraud, Seine-Saint-Denis, Conseil Gèneral
- 09:30 **Vegetation and traffic - problems of green in urban areas from a planner perspective**
Arch. Michèle Pezzagno, University of Brescia
- 10:00 **Karl Johan project**
Restoration and protection of a historical street and tree environmetal
Erik Solfeld, City of Oslo
- 10:30 Coffee break
- 11:00 **Transport infrastructure and street trees - prevention of conflicts**
Keynote speaker Jitzke Kopinga, Wageningen University and Research Centre
- 11:30 **Tree protection during construction works**
Dirk Dujesiefken, Institute of Arboriculture, Hamburg
- 12:00 Lunch
- 13:00 **Vegetation and buildings**
Examples of interaction in the cities
Keynote speaker Zsolt Cseh, City of Budapest
Contributors: Zoltan Csorba, Szent Istvan University, Budapest
Ina Cuklje,
Kristin Barbey, University of Karlsruhe
- 13:30 **Monitoring tree transpiration to prevent tree damages during tunnel construction in Malmö**
How to avoid damage of old mature trees when drastically alter the soil water table level by constructed a railway tunnel construction project in the down-town Malmö
Eero Nikinmaa, University of Helsinki, Finland
- 14:00 Coffee break
- 14:30 **Stormwater management and Low Impact Development (LID)**
Principles and examples on best storm water management practise
PhD-student Tone M. Muthanna, NTNU

15:00 Green roofs as toll for a better environment during urban desiccation

Interactions with the urban water cycle and other climatic and ecological conditions variable throughout Europe

Ulrik Reeh, Veg Tech AS, Denmark

Tobias Emilsson, Swedish Agricultural University

Stephan Roth-Kleyer, Fachhochschule Wiesbaden, Germany

Paolo Abram

Helga Salchegger

15:30 Closing words

by Håkan Schroeder, Chairman COST Action C15

Venue:

Radisson SAS Royal Hotel Bryggen, Bergen, Norway

Final date of enrolment:

Friday 30th of June 2006

Committee:

Håkan Schroeder, SLU and Chairman Cost C15

Asle Aasen, City of Bergen and management committee and WGA

Ørjan Stål, Sweco, management committee and Chairman WGA

Sveinn T. Thorolfsson, NTNU - management committee and WGA

Erik Solfeld, City of Oslo - WGB

Zoltan Csorba, University of Budapest

Jitzke Kopinga, Wageningen University and Research Centre



Contact persons:

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Delegate fee:

NOK 4.000,- incl. documentation and dinner at Fløien Restaurant, excl. accommodation.

NB! Delegate fee if not received within start of conference, will have to be paid onsite with creditcard.

Accommodation:

Single-room NOK 1.700,- incl. lunch and coffeebreaks at 24th and breakfast at the 25th + NOK 405,- for coffeebreaks and lunch at the 25th of August.

NOK 1.295,- incl. breakfast from 23rd to 24th of August.

Registration:

Tekna - The Norwegian Society of Chartered Technical and Scientific Professionals

P.O.Box 2312, Solli

N-0201 Oslo

Phone: +47 22 94 75 61 - Fax: 22 94 75 01

E-mail: registrering@tekna.no

Cancellation policy:

Cancellations made later than 30th of June 2006, will be subject of a service charge of NOK 1.200,- . There will be no refunds for cancellations after 18th of August.

Written cancellations only!

Organizers

Tekna in cooperation with EU COST C15



Registration →