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2nd Programme Draft

Workshop series 2048



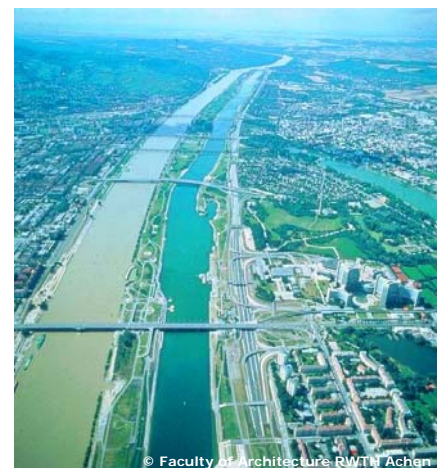
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WATER 2048

Guaranteeing aquatic ecosystem services in urbanised landscapes

13-15 October 2008

Wasserkcluster Lunz/See, Austria



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<http://www.boku.ac.at/hfa/WS2048>

Background & motivation

Aquatic ecosystems have been degraded more than any other ecosystem in the world. Concurrently, human populations are increasing their demand on available ecosystem services. Aquatic ecosystems provide multiple ecosystem services such as drinking water, irrigation, process water, sewage disposal, water purification, hydropower, recreation, and tourism.

However, the availability of these resources cannot keep pace with the increasing demands of rapidly urbanising societies. Since 2007, there are now more people living in cities than in rural landscapes. This geographical shift is leading to the spatial and structural decoupling of human demand and aquatic ecosystem service provision.

Freshwater ecosystems are intrinsically connected to their surrounding landscapes and are now perceived as “riverscapes” in the scientific community. Ecosystem integrity tends to decrease in urban societies, which may cause significant threats to human wellbeing in the near future.

In this workshop, we will contrast the needs of urbanised societies with the status and potential of aquatic ecosystems to identify future research challenges and societal solutions for a rapidly changing world.

Programme

The key topic “aquatic ecosystem services in urbanised landscapes” will be developed and discussed from three scientific perspectives. The workshop will be introduced by a keynote lecture from an internationally renowned expert on global development and future challenges of our society.

The keynote lecture will be followed by 2 presentations on ecosystem services and urbanised landscapes that will enlighten our understanding of the workshop theme. Afterwards, key questions for future research will be derived by group discussions to define solutions using integrative management concepts and strategies.

Monday, October 13th 2008

Official start of the Workshop

- | | |
|-------|--|
| 17:00 | Shuttle transfer from Vienna city (IHG) / Vienna international airport to Lunz |
| 20:00 | <i>Welcome cocktail and get together dinner at Restaurant Seeterrasse</i> |

Tuesday, 14th of October

Topic: Alternative development scenarios - future problems and consequences for aquatic ecosystems and society.

- 08:30 – 09:00 Registration and welcome coffee
09:00 - 09:10 Opening and Welcome by **Mathias Jungwirth** (IHG)
09:10 – 09:25 Welcome and Backgrounds by **Irene Gabriel** (B.M.W_F)
09:25 - 09:30 Organisational aspects by **Rafaela Schinegger** (IHG)

Key notes

- 09:30 – 10:00 Introduction into WS topic (**Susanne Muhar et al.**)
10:00 – 10:45 Keynote lecture (**Manfred Max-Neef**)
10:45 – 11:15 *Coffee Break*
11:15 – 11:45 Presentation (**Stefan Schmutz**)
11:45 – 12:15 Presentation (**Claudia Pahl-Wostl**)
12:15 – 12:30 Discussion
12:30 – 14:00 **Lunch at Restaurant Seeterrasse**

World Cafè I

- 14:00- 14:15 Introduction – World Cafè method
14:15 – 16:45 World Cafè Session I (coffee in between)

Plenary session

- 16:45 – 17:15 Reporting of World Cafè groups
17:15 – 17:30 Evaluation/Ranking of topics
17:30 – 17:45 Summary of first day (**Klement Tockner**)
17:45 - 18:00 Outlook - Day 2

19:00

20:30

Dinner at Restaurant Seeterrasse
VIP Future chat 2048 @ Wasserkcluster

Wednesday, 15th of October

Topic: Deriving key questions for future research and development of solutions using integrative management concepts and strategies.

Plenary session

- 09.00 – 09.30 Report of World Cafè I findings (4 spotlights)

World Cafè II

- 09:30 – 11:30 World Cafè Session II (in between coffee)

Plenary session

- 11:30 – 12:00 Reporting of World Cafè groups
12:00 – 12:15 Evaluation/Ranking of topics
12:15 – 12:30 Summary of the meeting (**Jan Sendzimir**)
12:30 – 13:00 Feedback session
13:00 – 13:15 Closing of the meeting (**Stefan Schmutz**)

13:30 - 15:00

15:00

Lunch at Restaurant Seeterrasse
Shuttle transfer from Lunz to Vienna city/airport

Keynote lecture & presentations

1st presentation – Keynote lecture by Manfred Max-Neef:

Urban areas and riverscapes: A futurologist view.

- What are the key future trends and potential scenarios for managing increasing urbanisation, increasing water demands and uses, and climate change?
- How do aquatic ecosystems – in terms of e.g. disturbed processes, biodiversity loss – respond to these pressures?
- What are the societal consequences of the altered provision of ecosystem services?

Alternative Nobel Prize Winner, Former Presidential Candidate, Rector of Universidad Austral de Chile

Presently

Founder and Executive Director of the Development Alternatives Centre, CEPAAUR, in Chile.

Rector (Vice Chancellor) until August 2002, of the Southern University of Chile.

Professor of Ecological Economics, Southern University of Chile.

Honorary Member of the Club of Rome.

Member of the New York Academy of Sciences.

Active member of the European Academy of Sciences and Arts.

Member of the group of International Patrons of the Refugee Studies Programme of the University of Oxford, England.

Member of the Scientific Committee of the “Leopold Kohr Akademie”, Salzburg, Austria.

Member of the Editorial Council of the International Journal of Ecological Economics.

Formerly

Member of the Scientific Advisory Council of the Governments of Canada and Sweden for Sustainable Development.

Lecturer in Development Economics, University of California, Berkeley, U.S.A.

General Economist of FAO, Chief of Mission of the International Labour Organization, and Consultant for UNICEF and UNDP.

Independent Presidential Candidate in the Chilean 1993 general elections.

Awards

Creator of the principles of “Barefoot Economics” and of the Theory of Human Scale Development, for which he was awarded, in the Swedish Parliament, the (1983 Right Livelihood Award – the Alternative Nobel Prize).

Doctor of Economics honoris causa, University of Jordan, Jordan, and University of Antioquia, Colombia.

Publications

Author of eight books and over 100 essays and papers. His main works have been translated into several languages.

WATER 2048

Guaranteeing aquatic ecosystem services in urbanised landscapes

2nd presentation by Stefan Schmutz:

The role of ecosystem function in guaranteeing ecosystem services.

- How can we ensure ecosystem function under increasing urbanisation, increasing water demands, climate change, and changing recreation behaviour?
- What are the requirements for ecosystems/biocoenoses to withstand or recover from anthropogenic disturbances?

Stefan Schmutz (1963) is University Professor at the Inst. of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Applied Life Sciences, Vienna, Austria.

Graduated in Applied Hydrobiology in 1991, PhD in Hydrobiology in 1995, since 1997 University Professor.

Guest lecturer at Cornell University (2000), Virginia Tech University (2002), Oregon State University (2005).

Coordinator of EU-projects FAME and EFI+

Introduction by Susanne Muhar:

Status of aquatic ecosystem services in a changing world

Dr. Susanne Muhar is Associate Professor at the Institute of Hydrobiology and Aquatic Ecosystem Management, University of Natural Resources and Applied Life Sciences, Vienna, Austria.

She has a master in Landscape Ecology and Landscape Design and a PhD, in Natural and Technical Sciences.

Habilitation (1998): „River conservation and ecological river management“.

3rd presentation by Claudia Pahl-Wostl:

Societal demands for aquatic ecosystem services.

- How will societal demands on aquatic ecosystem shift under alternative global change scenarios?
- How can future ecosystem service demands be managed under changed environmental conditions?
- What driving forces can ensure the sustainable behaviour of humans and guarantee aquatic ecosystem services in urbanised landscapes?

Claudia Pahl-Wostl is professor for the "Management of Resource Flows" at the Institute for Environmental Systems Research in Osnabrück, Germany.

Before moving to USF Claudia Pahl-Wostl worked for more than ten years in the field of mathematical modelling, integrated assessment and human ecology at the Swiss Federal Institute for Science and Technology, Zürich and the Swiss Federal Institute for Aquatic Science and Technology, EAWAG, one of the leading water research institutes in Europe. She is representative of the IHDP (International Human Dimension Program) in the Global Water System Project (a joint project of the ESSP – WCRP, IGBP, IHDP and DIVERSITAS) to develop a global change research program on the water issue from a social science perspective, member of the steering committee of EFIEA, the European Forum for Integrated Environmental Assessment and president of TIAS, The International Society for Integrated Assessment.

Claudia Pahl-Wostl participates in and coordinates several European projects. She is coordinator of the EU project HarmoniCOP (Harmonizing Collaborative Planning on the role of social learning and IC-tools in participation with specific emphasis on the European Water Framework Directive), member of the core group of the EU Concerted Action Harmonica (Harmonizing Modelling Tools at Catchment Scale – developing guidance for the implementation of the European Water Framework Directive) and coordinator of the EU project cluster on the Human Dimension in Water Management.

She coordinates the Integrated Project NeWater (New methods for adaptive water management) project which aims at a paradigm shift in water resources management in both research and practice. NeWater develops new methods for integrated water management taking into account the complexity of the river basins to be managed and the difficulty to predict the factors influencing them (e.g. climate, socio-economic developments). NeWater focuses in particular on the transition from current regimes of water management in a river basin to more integrated, adaptive approaches with strong stakeholder participation. The project has case studies in Europe, Africa and Central Asia, where new methods are developed and tested in participatory settings. The project involves forty partner organizations.

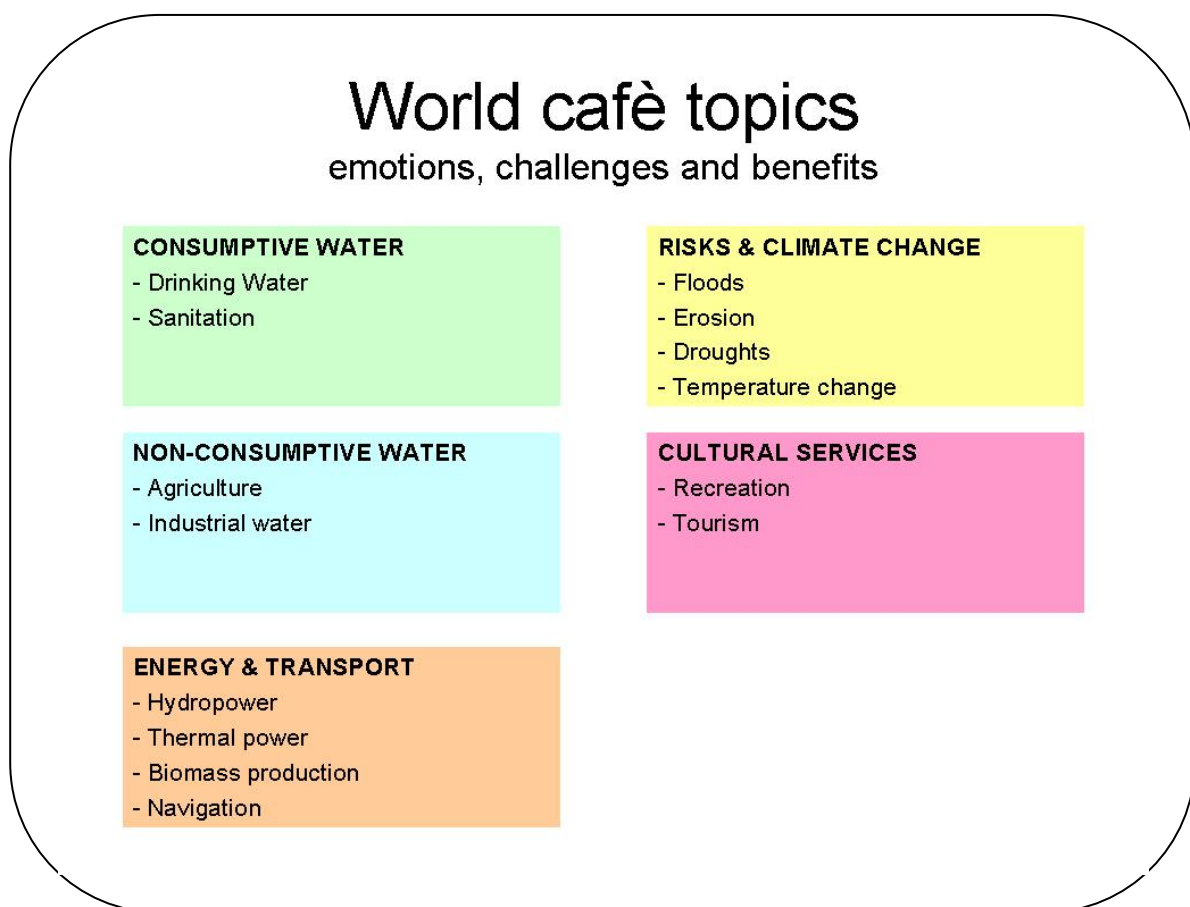
Workshop design

In response to the keynote addresses, workshop participants will work towards specific common results, integrating their own experience and expert knowledge during the world-café sessions I and II.

The world- café approach

For the workshop sessions, the „World Café” format will be applied (see <http://www.theworldcafe.com/> for more info). The café ambiance will help participants to discuss a question or issue in small groups around the café tables. The participants can move between tables. Only one person, the table host remains and summarises the previous conversation to the new table guests.

There will be 5 tables with one topic per table. All participants will be assigned to a table/topic. They focus their discussion on the table topic but are free to change to any other table/topic, whenever they wanted to. There will be one table host for each table. Table hosts will be responsible for visualizing and taking notes, of what has been discussed during the whole workshop session and will be pre-assigned.



Financial issues

Workshop and accommodation costs will be borne by the conference organizers. **However, costs and organisation of travel to and from Vienna are the responsibility of the participants.**

A lump sum contribution (**about 200 euros/participant**) can be refunded for these travel expenses. The sum will be paid to the participants in Lunz directly (during registration). Please note that we can only consider participants outside of Austria for this partial reimbursement.

For reimbursement, we will need a copy of your flight tickets and bills – please be prepared to bring them to Lunz!

Transport to/from Lunz

Lunz/See is located in Lower Austria, about 180km / 2 hours away from Vienna.

Due to the fact that there is no adequate public transport to this region, we will provide a shuttle service as follows:

Monday, 13th October

17:00 from IHG-BOKU (located in Vienna City) to Lunz (see the following maps how to get to our institute).

and

17:00 from Vienna airport (in front of arrival hall) to Lunz.

Wednesday, 15th October

15:00 from Lunz to Vienna city (arrival around 17:30)

and

15:00 from Lunz to Vienna airport (arrival around 17:30)

Due to organisational reasons, we can't provide the shuttle service at another time. But due to a very good connection, the city of Vienna can be reached within 20 min., the way to the institute is about 45 min. from the airport

Therefore we kindly ask **persons who arrive on Monday the 13th around midday to inform us until Thursday the 9th of October if you want to wait at the airport (until 17.00h) or if you prefer to go to the city meeting point at our institute by your own (see next page for maps).**

From Vienna international airport to IHG BOKU

It's the best solution to take the CAT (City airport train), for schedules see:

<http://www.cityairporttrain.com//fahrplan/catfahrplan/langen/>

Take a **CAT into the city** (station Landstraße – Wien Mitte) and then move to the underground line **U4 in direction "Heiligenstadt" until station "Spittelau"**. There, move to the **BUS 37A (outside of the station) in direction "Dänenstraße"** – to the final station of this line ("Dänenstraße"). From there, it's only a short walk of 1 minute down the Street to Max-Emanuelstraße 17, where our institute is located.

Route option from Landstraße to Dänenstraße

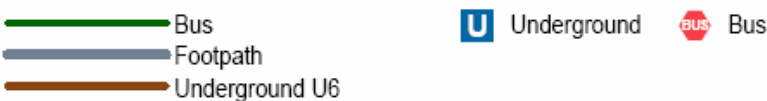
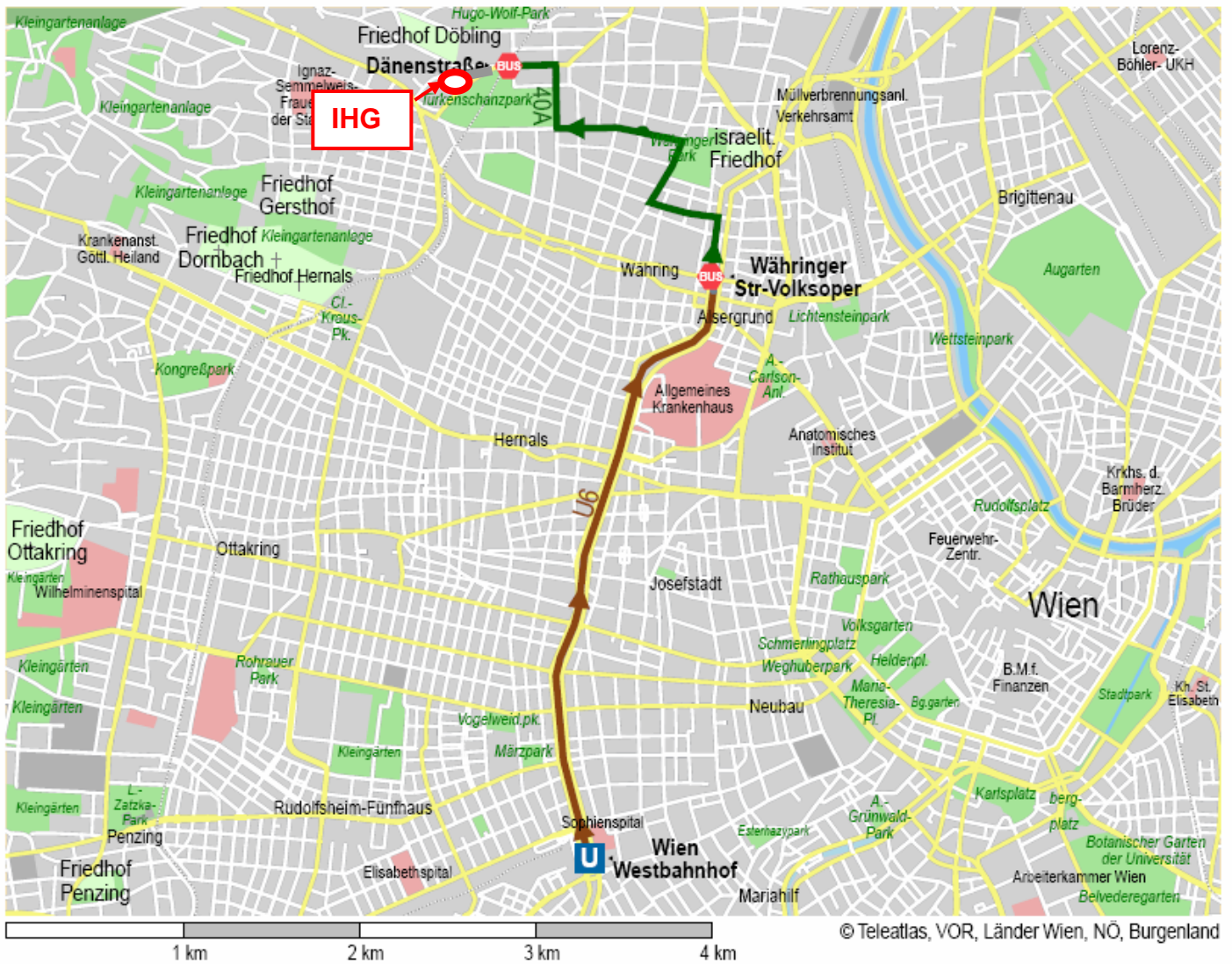


- 1 U Underground U4 Landstraße Spittelau
- 2 BUS Bus Spittelau Dänenstraße

From Vienna Westbahnhof to IHG BOKU

Take the underground line **U6** in direction **"Floridsdorf"** until station **"Währinger Straße"**. There, move to the **BUS 40A** (outside of the station) in direction **"Döblinger Friedhof"** and get out at station **"Dänenstraße"**. From there, it's only a short walk of 1 minute down the Street to **MAX-Emanuelstraße 17**, where our institute is located.

Route option from Wien Westbahnhof to Dänenstraße



- | | | | | |
|---|--|----------------|-------------------------|----------------------------|
| 1 | | Underground U6 | Wien Westbahnhof | Währinger Straße-Volksoper |
| 2 | | Bus | Währinger Str-Volksoper | Dänenstraße |

Accommodation & Workshop location

IHG – BOKU is organising the accommodation in Lunz (13.-15.10) for all workshop participants in guesthouses, only a short walk away from Wasserkluster. Please have a look at the **attached file “WATER2048_Accommodation”** to see where you are accommodated.

The workshop itself will take place at the Wasserkluster Lunz, a freshwater research center located on the shore of Lake Lunz („Lunzer Untersee“) and surrounded by a magnificent Alpine scenery.

Due to this fact, it's a bit colder than in the Viennese area, therefore we suggest taking a warm jacket and sturdy shoes with you.

Address:

WasserKluster Lunz GmbH
Dr. Carl Kupelwieser Promenade 5
A-3293 Lunz am See, Austria
<http://www.wasserkluster-lunz.ac.at>

For more information about **Lunz/See**, see the websites:

www.lunz.at (official website of Lunz).
<http://www.tiscover.at/lunz.see> (information in english).

Organisation & contact

The workshop is organised by the **IHG-BOKU** (Institute of Hydrobiology and Aquatic Ecosystem Management, University of Applied Life Sciences Vienna).
Convenors: Stefan Schmutz, Susanne Muhar, Mathias Jungwirth.

The workshop is sponsored by the **BM.W_F** (The Austrian Federal Ministry of Science and Research) as part of the Austrian Network of Environmental Research (ÖNUF +2048 project).

IHG-BOKU:

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BOKU - UNIVERSITY of NATURAL RESOURCES and APPLIED LIFE SCIENCES
Max Emanuel-Strasse 17, 1180 Vienna, Austria
Phone: 43-1-47654-5223, fax: 43-1-47654-5217
<http://www.boku.ac.at/hfa/WS2048>

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