

I herewith definitely register for the
dex summer school
from 2nd of July to 7th of July, 2017 in
Rottenbach (Upper Austria) and Vienna, Austria

Title or Function

First- and Family Name/Company/Affiliation Address

Country/Postcode/City

E-Mail/Mobile Phone

The total amount of EUR 390.- (no VAT) will be
transferred to the bank account

dex
BIC COBADEFFXXX
IBAN DE91 7004 0041 0333 4380 00

Please indicate on your bank transfer document
your name and the reference „**dex-summer school**”.

City/Date/Signature

Please transfer your registration form either by
fax to **+49-8092-854579** or by
e-mail to **info@expertenrat.org**
Registrations will be accepted **until April 30, 2017**

Registration

Please register until April 30, 2017
(by fax or e-mail) using the attached form.

Costs

Fee: 390, - €
The fee includes full board, accommodation and the
bus transfer to accommodation and excursions.

Accommodation in double bed rooms in
Geboltskirchen (Upper Austria) and Vienna
from 2nd of July – 7th of July, 2017
Single bed rooms at additional costs.

Confirmation of registration is sent after
payment of € 390, - has been received.

Bank account

Commerzbank (Germany):
dex
BIC COBADEFFXXX
IBAN DE91 7004 0041 0333 4380 00

Venue

VTA Austria GmbH
Umweltpark 1
AT - 4681 Rottenbach / Upper Austria
Austria
&
TU Wien - TU the Sky
Getreidemarkt 9
AT-1060 Vienna
Austria



8th dex summer school

www.expertenrat.org

2nd of July to 7th of July, 2017

WWTP Design and Advances in Energy Positive Wastewater Treatment

Prof. Dr.-Ing. N. Jardin
Prof. Dr. techn. N. Matsché
Prof. Dr.-Ing. F.W. Günthert
Prof. Dr.-Ing. N. Dichtl
Prof. Dr.-Ing. F.-B. Frechen
Prof. Dr.-Ing. M. Wichern
Prof. Dr.-Ing. R. Hilliges
Prof. Dr.-Ing. C. Schaum
Prof. Dr.-Ing. J. Krampe

Venue:

VTA Austria GmbH
4681 Rottenbach,
Austria

TU Wien
1060 Vienna,
Austria

Organiser:

Deutscher Expertenrat (dex)
German Experts
Association for
Environmental Technology
and Infrastructure



Eighth dex summer school 2017 Rottenbach/Vienna, Austria

WWTP Design and Advances in Energy Positive Wastewater Treatment

Goals of dex summer school

Transfer of scientific background, advanced knowledge and actual experience on methodologies and technologies for water quality management as it is required to implement European Water legislation (Water Framework Directive) and is supported by new scientific research results.

Progress in this trans-disciplinary field of expertise relies on a common professional language which will promote international human networking of (young) water professionals and enhance team working.

2017

dex summer school started in 2009 and was successfully continued since then with more than 120 young water professionals from more than 12 different countries. The 2017 program follows the strategy of maintaining basic lectures enriched with new topics of interest. As a special feature in 2017, part of the summer school will be held together with the summer school of the EU financed project Powerstep in Vienna, where innovative and cutting-edge research on creating energy positive waste water treatment plants will be presented.

The contents of the course covers: Advanced scientific background, actual knowledge, experience and practical aspects for design and operation of waste water treatment plants, sludge-handling and advances in energy positive wastewater treatment plants.

Participants

Post graduate and doctoral students (civil/environmental engineering or similar), young water professionals from consulting companies utilities and equipment suppliers from all of Europe. Special emphasis on young professionals from the new EU and accession countries in Central and Eastern Europe (sponsoring of fee is possible with a separate application supported by a supervisor). Max.~25 participants.

Sunday, 02nd of July 2017 - Rottenbach

17:00 Arrival at Geboltskirchen

19:00 – 22:00 Dinner with dex Professors

Monday, 03rd of July 2017 - Rottenbach

08:30 – 09:00 Introduction

Prof. Dr.-Ing. N. Jardin, Ruhrverband (DE)

Prof. Dr. techn. N. Matsché, TU Wien (AT)

9:00 – 12:00 Planning and design data of wastewater treatment systems

Prof. Dr.-Ing. N. Jardin, Ruhrverband (DE)

13:00 – 13.30 Introduction of VTA

Dr.hc. U. Kubinger, VTA (AT)

13:30 – 17:30 Laboratory work - sludge parameters and microscopical analyses

Prof. N. Matsché, TU Wien (AT)

J. Stelzer, MSc and M. Peter, B.Eng, VTA (AT)

Barbecue evening

Tuesday, 04th of July 2017 - Rottenbach

08:30 – 12:00 Activated sludge process design

Prof. Dr. N. Matsché, TU Wien (AT)

13:00 – 15:30 Primary and secondary settling tanks and sludge mass balance

Prof. Dr.-Ing. F.W. Günthert, Uni-Bw München (DE)

15:30 – 18:00 Sludge treatment, sludge reuse and phosphorus recycling

Prof. Dr.-Ing. N. Dichtl, TU Braunschweig (DE)

Wednesday, 05th of July 2017 - Rottenbach

08:30 – 11:30 Membrane technology

Prof. Dr.-Ing. F.-B. Frechen, Uni-Kassel (DE)

12:30 – 14:00 Microbial fuel cells for wastewater treatment – perspectives and limitations

Prof. Dr.-Ing. M. Wichern, Ruhruni Bochum (DE)

Prof. Dr.-Ing. R. Hilliges, Hochschule Augsburg (DE)

14:00 WWTP Excursion

18:00 Transfer to Vienna

Thursday, 06th of July 2017 - Vienna

09:00 – 10:00 Energy consumption and production on wastewater treatment plants

Prof. Dr.-Ing. J. Krampe, TU Wien (AT)

10:00 – 11:00 The WWTP of the future – A partner of the energy industry?

Prof. Dr.-Ing. C. Schaum, Uni-Bw München (DE)

11:00 – 12:00 Introduction to Powerstep EC Project

<http://www.powerstep.eu/>

B. Lesjean, Veolia Germany (DE)

13:00 – 17:15 Presentation Powerstep Part I:

- C-extraction for energy recovery into biogas
- N-removal in main stream
- N-management in side stream

17:30 Guided city tour Vienna

Friday, 07th of July 2017 - Vienna

9:00 – 11:00 Presentation Powerstep Part II:

- Biogas valorisation and energy management
- Full plant concept integration

11:00 – 11:30 Closing remarks on Powerstep

Dr. C. Loderer, KW Berlin (DE)

12:30 Closing Ceremony + Third Man Tour