

## 6<sup>th</sup> SURE Summer School Salzburg

### Sustainability of environment and development in urban regions and the case of Salzburg, Austria

Organized by: **Society for Urban Ecology (SURE) in Partnership with Urban and Landscape Research Group, University Salzburg, Austria (Univ.-Prof. Dr. Breuste)**

For:

- **University Salzburg, Salzburg, Austria**, Dept. Geography and Geology, master course
- **Technical University Dresden, Germany**, master course nature resource management and regional development

**Time:** 3-7 July 2017

**Arrival:** Sunday 2<sup>nd</sup> July 2017; **Departure:** Saturday 8<sup>th</sup> July 2017

**Course days:** 5 (Monday – Friday), 3-7 July, 9:00 – 12:00 am and 13:30 – 16:30 pm, 6 h per day

**Location:** University Salzburg, Austria, Faculty of Natural Sciences, Hellbrunnerstr. 34

#### **Course Content:**

**Course structure:** Half day lecture and half day field trip, Wednesday the whole day field trip

#### **Topics**

**1) Natural Environment** - Definition of nature and environment, humans in natural environments, natural and artificial environments, environmental ethics

**2) Overview of Environment Issues** - Environmental concerns, atmospheric emissions, water pollution, solid and hazardous wastes, radioactive wastes, depletion of natural resources, land use and ecological impacts

**3) Environmental problems** - Environmental impacts of fossil-fueled vehicles, fuel and energy requirements, clean technology, the role of electric power, overview of environmental impacts, alternative energy sources and technology, outlook of alternative energy technology

**4) Urban air pollution** - Air quality, accumulation of pollutants in an urban area, ozone in urban area, controlling ozone formation

**5) Global warming and the Greenhouse Effect** - Fundamentals of the greenhouse effect, radiate forcing of climate change, temperature changes from radiate forcing, climate changes, carbon emission and energy use, reducing greenhouse gas emissions, future outlook

**6) Defending the environment** - Changing attitudes, nature conservative, environmentalism

**7) Politicizing the environment** - A politics of nature, ecologism: a new political ideology, the emergence of green politics

**8) Sustaining the environment and globalization** - The idea of sustainable development, history of sustainable development, sustainable development in practice, sustainable society, global environment, globalization, global problem and global solutions

## Schedule

**12 international reputed lecturers, experienced in urban and regional ecology from around the world introduce in the morning sessions into the main topics of the Summer School. These will be applied in the afternoon session**

Monday 3<sup>rd</sup> July 2017 9:00 – 12.30

09:00 – 10:30 - Lecture 1: **Jürgen Breuste**, Salzburg, Austria

About SURE, Course introduction,

Benefits from nature in the growing cities (participation of all TU Dresden students)

Break

11:00 – 11.45 – Lecture 2: **Angela Hof**, Salzburg, Austria:

Green infrastructure, urban climate and ecosystem services: concepts, models and assessments (participation of all TU Dresden students)

11:45 – 12.30 – Lecture 3: **Alma Zavodnik Lamovšek**, Ljubljana, Slovenia:

The impact of motorway construction on land use changes - **Natural Environment** (participation of all TU Dresden students)

Lunch break

13:30 – 16:30 – Field work 1: **Günther Nowotny**, Dept. Nature Conservation, Provincial government of Salzburg:

Management of urban trees in Salzburg, **Politicizing the environment** (participation of group (A), TU Dresden students)

Tuesday 4<sup>th</sup> July 2017 9:00 – 12.30

09:00 – 10:30 - Lecture 1: **Martina Artmann**, Dresden, Germany:

Urban Green and Ecosystem Services – from Assessment to an Integrative Management, **Urban air pollution, Global warming and the Greenhouse Effect, Defending the environment**

(participation of all TU Dresden students)

Break

11:00 – 11.45 – Lecture 2: **Cristian Ioja**, Bucharest, Romania:

Environmental Conflict Assessment in Urban Areas (participation of all TU Dresden students)

11.45 – 12.30 – Lecture 3: **Péter Szilassi**, Szeged, Hungary:

The experiment based assessment of the vegetation structure in urban parks (participation of all TU Dresden students)

Lunch break

13.30 – 17.00 **Jürgen Breuste**, Salzburg, Austria:

Urban Sustainable and Ecological Planning in Salzburg – Stadtwerke Area. Natural Environment, Politicizing the environment (participation of group (E), TU Dresden students)

Wednesday 5<sup>th</sup> July 2017 8:00 – 17.30

08:00 – 17:30 - Field Work 3: **Jürgen Breuste**, Salzburg, Austria:

**Urban Development and Ecological Aspects of an Industrializing City**

Full day excursion (bus) to Linz, **Eco-City development, Nature Protection. Politicizing the environment** (participation of all TU Dresden students)

Thursday 6<sup>th</sup> July 2017 9:00 – 12.30

09:00 – 10:30 - Lecture 1: **Doris Damyanovic**, Vienna, Austria:

The planning of green Infrastructure as a prerequisite for ecological urban planning - **Politicizing the environment**

(participation of all TU Dresden students)

Break

11:00 – 12.30 – Lecture 2: **Salman Qureshi**, Berlin, Germany, Karachi, Pakistan.

Socio-ecological complexities and multidisciplinary methodologies: comparative case studies (participation of all TU Dresden students)

Lunch break

13:30 – 14.30 – Lecture 3: **Junxiang, Li**, Shanghai, China:

Plant biodiversity along the urban-rural gradient in Shanghai, China

14:30 – 16:30 – Field work 4: **Jürgen Breuste**, Salzburg, Austria:

**Where Salzburg is most beautiful** - Urban ecosystems in Salzburg, ecological walk and discussion

09:00 – 10:30 - Lecture 1: **Martin Sauerwein**, Hildesheim, Germany:

Urban soil landscapes, soil protection, avoidance of soil sealing (participation of all TU Dresden students)

Break

11.00 – 13.00 Field work 5: **Ana Faggi**, Universidad de Flores, Buenos Aires, Argentina:  
**Assessment of urban green areas**, (participation of all TU Dresden students)

Lunch break

14:00 – 15.30 – Lecture 2: **Jürgen Breuste/Martina Artmann (moderation)**, Salzburg, Austria/Dresden, Germany:

Presentation of Group Work of TU Dresden students (Groups A, C, D 10 minutes presentation, group D 13 minutes presentation)

15.30 – 16.30 Final Ceremony

#### Lecturers:

1. **Artmann Martina, Dr.;** Institute for Spatial Ecological Research (IÖR), Dresden, Germany, .artmann@ioer.de
2. **Breuste Jürgen, Univ.-Prof. Dr.;** Chair Urban and Landscape Ecology, Dept. Geography and Geology University Salzburg, Hellbrunnerstr. 34, A 5020 Salzburg/Austria, [juergen.breuste@sbg.ac.at](mailto:juergen.breuste@sbg.ac.at); [www.urban-landscape-ecology.com/](http://www.urban-landscape-ecology.com/)
3. **Damyjanovic Doris, Dr.;** Institut für Landschaftsplanung Peter-Jordan-Straße, 65 1180 Wien, Email: doris.damyjanovic@boku.ac.at. Tel: +43 1 47654-85415
4. **Faggi Ana, Prof. Dr.;** Universidad de Flores, Buenos Aires, Argentina, [afaggi2003@yahoo.com.ar](mailto:afaggi2003@yahoo.com.ar)
5. **Hof Angela, Assist. Prof. Dr.;** Urban and Landscape Ecology, Dept. Geography and Geology University Salzburg, Hellbrunnerstr. 34, A 5020 Salzburg/Austria, [angela.hof@sbg.ac.at](mailto:angela.hof@sbg.ac.at); [www.urban-landscape-ecology.com/](http://www.urban-landscape-ecology.com/)
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8. **Nowotny Günther, Mag.;** Dept. Nature and Environmental Protection, Provincial Government of Salzburg; [guenther.nowotny@inode.at](mailto:guenther.nowotny@inode.at);

9. **Qureshi Salman, Dr.;** Humboldt University Berlin, Germany, salloo19@yahoo.com
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11. **Szilassi Peter, Ass. Prof. Dr.** University of Szeged, Department of Physical Geography and Geoinformatics, Szilassi Péter <toto@geo.u-szeged.hu>
12. **Zavodnik Lamovšek Alma, Ass. Prof. Dr.;** Chair of Spatial Planning, Vice-dean for students affairs, University of Ljubljana, Slovenia, Faculty of Civil and Geodetic Engineering, Jamova 2, 1000 Ljubljana, T: +386 1 4768 642, M: +386 41 635 569, E: [Ima.zavodnik@fgg.uni-lj.si](mailto:Ima.zavodnik@fgg.uni-lj.si), I: <http://www.fgg.uni-lj.si>

**Lecturers Addresses:**

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