

WORKING PLAN OF THE INTERNATIONAL SUMMER SCHOOL 2019  
Of the Leuphana University Lüneburg, the BOKU Vienna and the TU Budapest

# Environment and Climate Protection and Sustainable Mobility

Date of draft: May 13<sup>th</sup>, 2019

Following the good tradition of the Summer and Winter Schools in the last years, the International Summer School opens its gate on 05 august Monday and closes it on August 09<sup>th</sup>, Friday 2019.



<http://bit.do/ezaPN>  
<http://bit.do/ezaRa>  
<http://bit.do/ezaPX>

<http://bit.do/ezaPX>  
<http://bit.do/ezaQg>  
<http://bit.do/ezaQr>

Fig 1. BOKU in Vienna

Fig. 2 TU Budapest

## Information to the Organization

**Arriving day:** Sunday August, 04<sup>th</sup>, 2019

**Departure day:** Saturday August 10<sup>st</sup>, 2019

**Time interval of education:** from August 05<sup>th</sup> to August 09<sup>th</sup>, 2019

**Accommodation:** In convenient hotels and in the guest house of the universities in 3 and 4 bedrooms, with and without breakfast, depending on the hotel and the dormitory

**Lunch:** in the canteen of the universities or private.



## Topics

### **Climate Modelling, Environment and Climate Protection, Sustainable Mobility**

- Climate modelling and agricultural protection
- Methodologies and techniques to environmental assessment
- Different problems of pollution and environmental degradation
- Understanding general assemble and function of ecosystem and its elements
- Role of primary indicators of environmental problems.

**Teaching and learning techniques:** Team teaching and collaboration learning

**Language:** English

**Examination:** Assignment with combined evaluation for all participants.

Oral examination in groups in freely chosen sub-topics, related the above defined main topics at the last day, consisting of 3-4 students. Time interval per person: ca. 10 minutes. The evaluation commission consists of Hungarian and Austrian professors.

Written examination with a scientific report in groups, consisting of 3-4- students, similar to the oral examination. The volume is ca. 15 pages. Dead line is September 15<sup>th</sup>, 2019

**Number of Credit Points:** 5, depending on universities with an international examination document of the Technical University Budapest, Faculty Mechanical Engineering, signed by the BOKU and the TU Budapest.

## Suggested bibliography

Fundamentals in Air Pollution: From Processes to Modelling. Autor: Bruno Sportisse. Editorial: Springer.2010. ISBN 978-90-481-2970-6

Fundamentals of Air Pollution. 5th Edition. Daniel A. Vallero (Author). ISBN-13: 978-0124017337 ISBN-10: 0124017339

[Environmental Impact Assessment](#): A Guide to Best Professional Practices. [Charles H. Eccleston](#). CRC Press. ISBN. 13-978-1-4398-2874-8

Climate and Energy Protection in the EU and China. 5th Workshop on EU-Asia Relations in Global Politics. Autors: Hefele, P., Palocz-Andresen, M., Rech, M., Kohler, J.-H. (Eds.) Springer Verlag, Heidelberg. November 2018. ISBN 978-3-319-99836-7

Palocz-Andresen and Co: 86849213\_International Climate Protection\_978-3-030-03815-1. Springer Verlag Heidelberg. Publication in May 2019. [http://www.un.org/en/ga/search/view\\_doc.asp?symbol=A/RES/70/1](http://www.un.org/en/ga/search/view_doc.asp?symbol=A/RES/70/1)

## Member of consortiums:

- TU Budapest, BME
- University Vienna BOKU



- Power Plan Simmering
- Meteorological service of Austria
- ELTE Eötvös Lóránd University Budapest

- Hungarian Academy of Sciences MTA
- Embassy of the Federal Republic of Germany in Hungary

### Skype conference:

- Shanghai Jiao Tong University, China
- Greenwich University, U.K.
- Puebla University, Mexico
- Konrad Adenauer Foundation, Germany
- Trans Consult Asia Hong Kong, China
- Ouagadougou University Burkina Faso

## PROGRAM

### August 04<sup>th</sup>, Sunday

**For Hungarian and Austrian students, outside of Vienna:** Travelling to Vienna with the bus to the Meininger Hotel Downtown Franz (Rembrandtstraße 21, 02. Leopoldstadt, 1020 Wien, Österreich)

### August 05<sup>th</sup>, Monday

**BOKU University of Natural Resources and Life Sciences, Gregor-Mendel-Straße 33 1180 Vienna, Austria.  
Phone (+43-1) 47654-0.**

Travelling from the hotel to the university by bus.

- 10:00 – 10:10:10 Greeting by Prof. Dr. J. Eitzinger, director of the Institute for Meteorology
- 10:10-12:00 **1. Lesson: Influence of Climate Research on Environmental Situation (H. Formayer, BOKU)**
- 12:00 – 13:00 Lunch
- 13:00 – 16:00 **2. Lesson: Weather and Environment Pollution. Excursion to the Austrian Meteorological Service ZAMG (Zentralanstalt für Meteorologie und Geodynamik, 1190 Wien, Hohe Warte 38, Telefon: +43 1 36 0 26.** Travelling by bus.
- 16:00 **Sightseeing in Vienna**

### August 06<sup>th</sup>, Tuesday

**BOKU University of Natural Resources and Life Sciences, Gregor-Mendel-Straße 33 1180 Vienna, Austria.  
Phone (+43-1) 47654-0.** Travelling from the hotel to the university by bus.

- 10:00 – 12:00 **3. Lesson: Sustainable Agriculture, as an Important Element of the Environmental Protection** (J. Eitzinger, BOKU)
- 12:00 – 13:00 Lunch

- 13:00 – 16:00 **4. Excursion to the Simmering Power Plant. Erste Haidequerstraße 1, 1110 Wien Österreich.** Telefon: +43 1 40040. Travelling by bus to the excursion.



### Lesson of Prof. Eitzinger 2018

<http://bit.do/ezaR3>

- 16:00 Travelling to Budapest by bus
- 19:00 Accommodation in the P. Vásárhelyi Dormitory Budapest, House of the TU Budapest. Kruspér u. 2, 1111 Budapest, Telefon: +36 30 759 1951

### August 07<sup>th</sup>, Wednesday

- 10:00 – 10:15 **5: Greeting in the TU Budapest (T. Csoknyai, Technical University Budapest, Department of Building Services and Process Engineering, 1111 Budapest, Műgyetem rakpart 3-9, Building D, Laboratory. Tel: +36/1/463-1106)**
- 10:15 – 12:30 **6. Lesson: Art and Design for Modernization of the Environmental Protection Situation by Decreasing Pollutions. Developing posters in small teams. An art program with an exhibition at the end (A. Gosztom and T. Varga)**



### Common art program and the poster competition 2018

- 12:30 – 13:30 Lunch
- 13:00 - 14:30 **7. Visit of the institute for Electronic of the TU Budapest. Intelligent automotive technology. Autonomous Driving. TU Budapest, Faculty of Electrotechnology (L. Jakab, 1117 Budapest, Magyar Tudósok körútja 2, Building Q, B floor)**
- 14:30 – 16:00 **The challenge of mainstreaming Education for Sustainable Development in Higher Education in Hungary (Attila Varga, The Hungarian Institute for Educational Research and Development (HIERD), Eszterházy Károly University (EKU)**
- 16:00 Free program in Budapest

### August 08th, Thursday

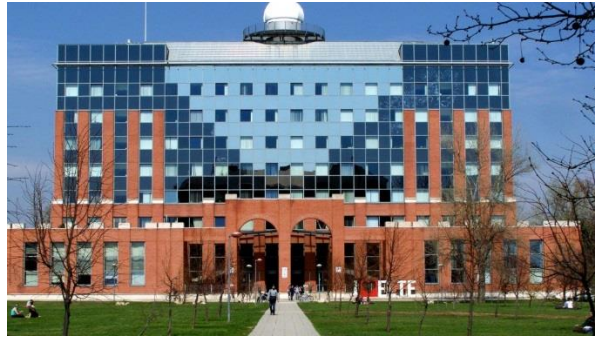
- 09:00 – 10:00 **8. Lesson: Visit of the Labs of the Technical University Budapest, Department of Building Services and Process Engineering, (L. Kajtár) 1111 Budapest, Műegyetem rakpart 3-9, Building D, Laboratory. Tel: +36/1/463-1106)**



### Excursion to the laboratory of the TU Budapest 2018

- 10:00 – 10:30 Walking to the ELTE (University Eötvös Loránd, Institute for Geography and Earth Sciences, Chair for Meteorology, 1117 Budapest, Pázmány Péter sétány 1/A, Tel.: +36/1/372-294)
- 10:30 – 11:00 **9. Lesson: The Role of the ELTE, the largest and oldest university in Hungary on the Climate and Environment Protection (J. Bartholy, ELTE)**

- 11:00 – 11:30     **10. Lesson: Climate and Environmental Research in Hungary (R. Pongrácz, ELTE)**



<https://bit.ly/2YmKL7O>

### The ELTE Budapest

- 11:30 - 13:00     Lunch in the canteen of the TU Budapest
- 14:00 - 16:00     **11. Lesson: Developing General Assemble and Improving the Function of the Ecosystem. Embassy of the Federal Republic of Germany, 1014 Budapest, Úri utca 14)**



<https://bit.ly/2JFu0S5>

### The building of the German Embassy

- 16:00 **Sightseeing in Budapest**



<http://bit.do/ezaSf>

### The Matthias church

#### August 09<sup>st</sup>, Friday

Skype day at the Technical University Budapest BME, Faculty of Engineering Department of Building Services and Process Engineering. Skype lectures with young scientist discussions (1111 Budapest, Múgyetem rakpart 3-9, Building D, Room 121)

- 08:30 – 09:00 **12. Lesson: Waste Water and Sludge Technology in Shanghai (Z. Lou, Shanghai Jiao Tong University, China)**
- 09:00 – 09:30 **13. Lesson: Public Transportation in Hong Kong (Alok Jain, Trans-Consult Asia Ltd. China)**
- 09:30 – 10.00 **14. Lesson: Democratic Professionalism in Public Services (J. Lethbridge, Greenwich University London, Great Britain)**
- 10:00 – 10:30 **15. Lesson: Energy Security and Climate Change Impacts in Asia (P. Hefele, KAS Berlin)**
- 10:30 – 11:00 **16. Lesson: Biochemicals for Health Saving (A. Hilou, Guadadougou University, Burkina Faso)**
- 11:00 – 11:30 **17. Lesson: Using Hydro Energy in Mexico (M. Torres, Puebla University, Puebla, Mexico)**
- 12:00 - 13:00 Lunch in the canteen of the TU Budapest
- 14:00 – 15:00 **18. Lesson: The revolution of optics. (N. Kroó, MTA Hungarian Academy of Sciences. 1051 Budapest, Széchenyi István tér 9)**



<https://bit.ly/2i6NNrK>

### Historical building of the Hungarian Academy of Sciences

- 15:00 – 16:00     **19. Lesson: Visit of the Art Gallery of the MTA (Zs. Albert)**
- 20:00 – 21: 00     **Goodbye: Shipping on the river Danube. Cost level: 10 €/person (1051 Budapest, Vigadó tér, Ship station 5/A)**



<http://bit.do/ezaSr> (left)

Good by 2018 at the Danube river

***End of the Summer School 2019***