

# INVITATION

## International Education Conference 2018

„enabling - provocation - reflection“

Education 4.0 - Promotion of Sustainable  
Development through Innovative Teaching

University College for Agrarian and  
Environmental Pedagogy

29<sup>th</sup> and 30<sup>th</sup> of November, 2018



## Education is the most powerful weapon to change the world.

Nelson Mandela

The focus of the conference is **Future of Education**.

The topic "Education 4.0. – Promotion Sustainable Development through Innovative teaching call us to rethink international education. What will be the new challenges and in the different light the new opportunities regarding the Future of Education?

International experts address us about the new educational epoch and show us further steps.

*Education is at the heart of our efforts both to adapt to change and to transform the world within which we live. A quality basic education is the necessary foundation for learning throughout life in a complex and rapidly changing world*

*(UNESCO, 2015, Rethinking Education).*



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### **Elisabeth Köstinger – Federal Minister for Sustainability and Tourism**

Sustainability is one of the most important topics in Austria and whole Europe. For the sustainable future, it is necessary to work on different levels: the national, European and international. In our focus it is not just ecological sustainability but also social and economic. Innovations and new strategies are key elements for the future worth living in. The new concepts are very important and have big impact on our society.



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### **Univ.-Prof. Dr. Heinz Faßmann – Federal Minister for Education, Science and Research**

The key aspect of the Federal Ministry for Education, Science and Research is support structural change by promotion research, technology and innovation. Digitalization is one of most important aspects nowadays and it is captured in almost all areas of our life: economy, work, communication. It has great potential and is the big challenge for the education nowadays and in the future. Our society needs the strategy and ideas how could realize the opportunities of the digitalization.

# PROGRAMM

**29<sup>th</sup> of November, 2018**

- 9:00 **Arrival and Registration**
- 10:00 **Opening**  
**Rektor Dr. Thomas HAASE**, University College for Agricultural and Environmental Education  
**Welcome**  
**BM Elisabeth KÖSTINGER**, Federal Ministry of Sustainability and Tourism (requested)  
**BM Univ.-Prof. Dr. Heinz FASSMANN**, Federal Ministry of Education (requested)
- 10:15 **Education in the Anthropocene**  
Climate change can not be negotiated - a new "green deal" for sustainable development.  
**Prof. Dr. Kai NIEBERT**, Professor for Science and Sustainability Education, University Zürich, Switzerland  
**Discussion**
- 11:20 **Coffee Break**
- 11:40 **Transformative and Transgressive Learning for a World in Deep Troubl**  
New Challenges on Education for Sustainable Development  
**Prof. David SELBY**, Founding Director of Sustainability Frontiers and Associate Professor, in City University, Ireland  
**Discussion**
- 12:45 **Lunch Break - traditional Austrian tasty**
- 13:45 **Elements of the international ProfESus course**  
**„Discovering a Sustainable Mindset - in future-thinking professionals“**  
**Prof. Johanna MICHENTHALER**, University College for Agricultural and Environmental Education  
**Diskussion**
- 14:15 **Learning, to design the future**  
The didactic concept of Green Pedagogy and the use in vocational education  
**Prof. Wilhelm LINDER**, University College for Agricultural and Environmental Education
- 15:00 **Coffee Break**
- 15:15 **Structure of the international ProfESus course and evaluation of the pilot run**  
**Prof. Johanna MICHENTHALER**, University College for Agricultural and Environmental Education
- 15:45 **Aspects of transforming vocational schools, teacher education institutions and enterprises to implement sustainability**
- 16:30 **End of the first conference day**

## Conferences topics:

### Education in the Anthropocene

Humanity's impact on the Earth is now so profound. The science is proposed the new geological epoch – the Anthropocene. Based on this development the Heads of the State and Governments have adopted the Global Sustainable Development Goals (SDGs). The main goal of the implementation of SDGs will be the greener, healthier and more equality world in 2030. The contribution of Prof. Kai Niebert explores the question how education could face the challenges of the Anthropocene. The critically answers on the epoch of the Anthropocene are education for sustainable development as well as opportunities and results of the researches in subject didactics.



© Niebert

**Prof. Kai Niebert** studied science education in Hannover, Germany and conducted PhD-studies on students' conceptions on climate change. He spent his post-doc time at the Curtin University of Technology in Perth, Australia and Penn State University in the State College, USA. Currently he is Professor for Science Learning at the University of Zurich in Switzerland and Guest Professor at Leuphana University Lueneburg in Germany. His research interests lie in the Analysis of laypeople's conceptions on science topics and the evidence-based design of teaching strategies.

### Transformative and Transgressive Learning for a World in Deep Trouble

Prof. David Selby will look at the 'multi-crisis syndrome' the world faces before going on to ask whether sustainability education as currently construed offers a sufficiently transformative (empowering, transgressive and restorative) response. He will go on to propose a curriculum and pedagogy that deepens and stretches what we learn, how we learn and what we do with our learning.



© Selby

**Prof. David Selby** is Founding Director of Sustainability Frontiers and Associate Professor at the Centre for Human Rights and Citizenship Education, Dublin City University, Ireland. He was earlier Professor of Education and Director of the International Institute for Global Education, Ontario Institute for Studies in Education, University of Toronto, Canada. His present work concerns climate change and disaster risk and their implications for understandings and directions in sustainability education. He also works on transformative environmental education and is currently engaged in writing a book on place-based, re-wilding and biodiversity learning. His recent books, all with Sustainability Frontiers colleague, Fumiyo Kawagawa, include: Working Together for Resilience (2018), Sustainability Frontiers: Critical and Transformative Voices from the Borderlands of Sustainability Education (2015) and Climate Change in the Classroom (2013).

## Elements of the International Teacher Training Concept „ProfESus“

As part of the EU-Project „ProfESus“, an international teacher training concept has been developed and tested in the last 2 years. This blended learning course, which was developed as a best practice example for „Transformative Sustainable Learning“, will be presented in details during the International Conference.



© Michenthaler

**Johanna Michenthaler** is a lecturer at the University College for Agricultural and Environmental Pedagogy in Vienna.

My lessons and researches focus on nutrition and food technology, home economics, green pedagogy, subject didactics and school development.

Since October 2016 I am the chair of the international Erasmus+ project “ProfESus” with the topic “Focus on Sustainability – Education for Professionals in Household and guest-oriented Businesses.” By working with our wonderful project team I get day by day new inspirations and ideas to improve my personal teaching processes.

## Learning, to construct the future

Didactic concept of the Green Pedagogy is used in vocational Education for Sustainable Development and is not the transfer program of well-known concept in the practice. One of the key aspects in the future will be innovative way of thinking. But which competences are needed and how these could be developed? Green Pedagogy is looking for the answer how to develop and evaluate learning/teaching arrangements. In the following lecture will be presented concept of the Green Pedagogy, best practice examples and of reporting the first research results.



© Linder

**Prof. Wilhelm Linder** was graduated from biology and environmental education. He previously worked on Environmental education FORUM and Austrian UNESCO Commission. From 2008 is a lecturer at the University College for Agricultural and Environmental Pedagogy in Vienna. His research focus is on Environmental and Outdoor Pedagogy, Cultural Landscape and Nature Education, Education for Sustainable Development and Biology Didactics. He also works in the international projects in cooperation with Goethe Institute in East Europe and Central Asia and cooperates with European Network of Learning and Teaching in Agriculture and Rural Development.

## 30<sup>th</sup> of November, 2018

- 09:00 **So, education should be!**  
Video clip
- 09:20 **Education 4.0 – Dynamics of Digital Learning in Future**  
The future belongs to disruptives  
**Alexander PINKER**, The Medialist  
Innovation and Marketing Consultant, Technology Enthusiast and New Media Specialist
- 10:45 **Discovering an innovative mindset for for successful future teaching**  
3 Workshops  
**Alexander PINKER, Anne v. LAUFENBERG\_BEERMANN, Johanna MICHENTHALER**
- 12:00 **Presentation of the results of the group work**
- 12:30 Lunch break
- 13:15 **Pathway to the Top - Education 4.0** (Podiums discussion)  
In which way future education for sustainable development can be implemented in many more schools/countries in the EU and beyond?  
**Discussion with representatives from the following areas:**  
Federal Ministry of Education  
Federal Ministry of Sustainability and Tourism  
UNESCO Vienna (Department of Education)  
SDG Watch Austria, BJV  
Institutions of Vocational education  
University College for Agricultural and Environmental Education
- 14:15 Reflection and Feedback
- 14:30 Official end of the European Conference

### Information for interested schools and institutions

- 15:00 **Implementation of the ProfESus course**  
Chances for future education in your institution!  
How to use the open-source materials?  
Requirements and options
- 17:00 Estimated end of the Event

## Education 4.0 - Opportunities of Digital Learning in the Future

We are in the middle of a revolution! New processes, innovations and technologies are developing at an unprecedented pace, changing the world in which we live and not stopping at the education industry.

Disruptive technologies such as artificial intelligence, immersive media and big data-based learning software are changing not only the everyday life of learners and students, but also that of teachers. Educators need to adapt to new, digitally enriched learning approaches that prepare their students for the world of tomorrow.

The tools for digital change are manifold. Alexander Pinker therefore invites visitors to the International Conference on Education 2018 to take a journey into the world of tomorrow and provides insights into the future of learning. The future of education belongs to the unconventional thinkers.



© Pinker

Alexander Pinker is an innovation profiler, futurist and start-up expert. In 2011 he founded the Medialist Group ([www.medialist.info](http://www.medialist.info)), which deals with digital change through innovation profiling. He is also a board member of the startup network SUN e.V., a Europe-wide association for the promotion of young entrepreneurs, project manager for multimedia and new technologies at the Munich agency GMM AG and lecturer for trend and innovation management at the University of Applied Sciences in Wuerzburg.

### Workshop topics:

- Sustainable mindset in Vocational Education for Home Economics.
- Implementation and potential of the digital learning in Vocational education.
- Implementing innovative strategies and ideas in their institutions.
- Teacher Education – Is it time for the new direction?

### Discussion topics:

- What is needed in process of transformation in teacher education, lesson planning, business and society?
- Political support to planning necessary framework conditions at Universities, Schools and Business.
- Innovative teaching approaches and best practice examples.-

## Organisational Issues

### PLACE

University College for Agricultural and Environmental Education  
Angermayergasse 1, 1130 Vienna, Austria

### REGISTRATION

Deadline for registration: **10<sup>th</sup> of November 2018**  
per E-Mail: [seminare@agrарumweltpaedagogik.ac.at](mailto:seminare@agrарumweltpaedagogik.ac.at)

### FURTHER INFORMATION

Johanna Michenthaler (E-Mail: [johanna.michenthaler@agrарumweltpaedagogik.ac.at](mailto:johanna.michenthaler@agrарumweltpaedagogik.ac.at))  
Walter Haselberger

## You reach us environmentally friendly

<http://www.agrarumweltpaedagogik.ac.at/hochschule/kontakt-lageplan/index.html>



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## Hochschule für Agrar- und Umweltpädagogik



A-1130 Wien, Angermayergasse 1

Tel: +43 - 1 - 877 22 66



E-Mail: [info@agrарumweltpaedagogik.ac.at](mailto:info@agrарumweltpaedagogik.ac.at)

[www.agrarumweltpaedagogik.ac.at](http://www.agrarumweltpaedagogik.ac.at)