

## CURRICULUM VITAE

### Oksana Coban (Voloshchenko)

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### EDUCATION

#### **Ph.D., Environmental and Resource Management**, Expected April 2015

Brandenburg University of Technology, Cottbus, Germany

Helmholtz Centre for Environmental Research GmbH – UFZ, Leipzig, Germany

Thesis: Microbial nitrogen transformation in constructed wetlands treating contaminated groundwater

Advisors: Prof. Marion Martienssen, Dr. Kay Knoeller, Dr. Peter Kuschk

#### **MSc. Biochemistry**, June 2009

Dnipropetrovsk National University by Oles Gonchar, Dnipropetrovsk, Ukraine, Graduated with Honors

Thesis: Nanoliposomes preparations with surface lipids of plants

Advisor: Prof. Nataliia Shtemenko

#### **BSc. Biochemistry**, June 2008

Dnipropetrovsk National University by Oles Gonchar, Dnipropetrovsk, Ukraine, Graduated with Honors

#### **Assistant nurse**, June 2004

Dnipropetrovsk regional medical lyceum “Dnipro”, Dnipropetrovsk, Ukraine

### TEACHING EXPERIENCE

- Mentor, July 2012 – June 2013  
Mentoring Master student Dang Thi Kim Anh (Cologne University of Applied Science) and trainee Tim Findeisen (UFZ, Dept. of Biotechnology) on microbial nitrogen removal processes in constructed wetlands
- Teacher, October 2009 - October 2011  
Dnipropetrovsk State Medical Academy, Ukraine  
**Human anatomy**, small sections of 15 undergraduates per section  
Duties:
  - ✓ Conducting tutorials and workshops, controlling tests and marking assignments;
  - ✓ Demonstrations on human cadavers and samples;
  - ✓ Organizing and methodological work

### PUBLICATIONS

- Oksana Coban, Peter Kuschk, Uwe Kappelmeyer, Oliver Spott, Marion Martienssen, Mike S. M. Jetten, Kay Knoeller, (2015): Nitrogen transforming community in a horizontal subsurface-flow constructed wetland. *Water Research*. In press..
- Oksana Coban, Peter Kuschk, Kay Knoeller (2015): ADVOCATE Bulletin 6: Nitrogen biotransformation in horizontal subsurfaceflow constructed wetlands treating contaminated groundwater. *Technical/research bulletin CL:AIRE*.
- Oksana Coban, Peter Kuschk, Naomi S. Wells, Gerhard Strauch, Kay Knoeller, (2014): Microbial nitrogen transformation in constructed wetlands treating contaminated

groundwater. *Environmental Science and Pollution Research. Special issue: WETPOL 2013*. In press.

- A. Kononova, S. Antonyuk, K. Shamelashvili, O. Voloschenko, N. Shtemenko., (2009): Influence of nano-level introductions of the rhenium-platinum system on morphology, tumor growth and antioxidant state of tumor bearing animals. *Ukr. Biochem. Journal. Special issue: VII Parnas conference on Biochemistry and Molecular Biology*. 81 (4).

### **WORKS IN PROGRESS**

- Oksana Coban, Uwe Kappelmeyer, Kay Knoeller. Bacterial community structure in different types of constructed wetlands treating contaminated groundwater. Submission due: March 2015.
- Oksana Coban. Examples of modern ongoing facilities for ground water treatment and polluted sites remediation. In *Filtration Materials for Groundwater: A Guide to Good Practice*. IWA publishing, London, UK. Submission due: April 2015.

### **PROFESSIONAL PRESENTATIONS**

**Oral presentation**, September 2014: Microbial nitrogen transformation in constructed wetlands treating contaminated groundwater. Oksana Voloshchenko, Peter Kusch, Kay Knöller.

- In Situ Remediation 2014, London, UK.

**Oral presentation**, August 2014: Role of anaerobic ammonium oxidation and its interactions with other microbial nitrogen transformations in horizontal subsurface-flow constructed wetlands. Oksana Voloshchenko, Oliver Spott, Peter Kusch, Kay Knöller.

- 15<sup>th</sup> International Symposium on Microbial Ecology – ISME15, Seoul, South Korea.

**Poster**, June 2014: Isotopic constraints on the fate and transport of reactive nitrogen in complex contaminated aquifers. Kay Knoeller, Oksana Voloshchenko, Naomi S. Wells.

- Goldschmidt 2014, Sacramento, USA.

**Poster**, December 2013: Determining Vertical Groundwater-Surface Water Exchange Using a New Approach to Solve the 1D Heat Transport Equation. Uwe Schneidewind, Christian Anibas, Gerd Vandersteen, Okke Batelaan, Ingeborg Joris, Piet Seuntjens, Oksana Voloshchenko.

- American Geophysical Union's 47th annual Fall Meeting – AGU 2013, San Francisco, California, USA.

**Poster**, December 2013: Stable isotope fractionation related to microbial nitrogen turnover in constructed wetlands treating contaminated groundwater. Oksana Voloshchenko, Peter Kusch, Kay Knöller.

- American Geophysical Union's 47th annual Fall Meeting – AGU 2013, San Francisco, California, USA.

**Oral presentation**, October 2013: Microbial nitrogen transformation in constructed wetlands treating contaminated groundwater. Oksana Voloshchenko, Kay Knöller, Peter Kusch.

- Latest advances in the field of pollution control and diffusion in natural and constructed wetlands - Wetpol 2013, Nantes, France.

**Poster**, March 2013: Spatial distribution of microorganisms involved in N-cycle in different types of constructed wetlands. Oksana Voloshchenko, Kay Knöller, Peter Kusch.

- Annual Conference of the Association for General and Applied Microbiology – VAAM 2013, Bremen, Germany.

**Poster**, September 2012: Nitrogen isotope investigations in different types of constructed wetlands for the treatment of contaminated groundwater. Oksana Voloshchenko, Gerhard Strauch, Kay Knöller, Peter Kusch.

- The Joint European Stable Isotope User Meeting - JESIUM 2012, Leipzig, Germany.

### **OTHER PROFESSIONAL EXPERIENCE**

- Fieldwork in the area of bioremediation – work with constructed wetlands
- Short-term practice in Department of Enzyme Chemistry and Biochemistry of Palladin Institute of Biochemistry of the NAS of Ukraine, Kyiv, Ukraine - July 2007

### **PROFESSIONAL AFFILIATIONS and ACTIVITIES**

- Association for General and Applied Microbiology (VAAM), student member
- Peer reviewer for Environmental Science and Pollution Research Journal
- Volunteer work on organizing “FEMS 2013” conference
- Co-chairing a session at “In situ remediation 2014” conference

### **LANGUAGES**

- Ukrainian - native
- Russian - native
- English - advanced
- German - advanced
- Turkish – beginner

### **ADDITIONAL INFORMATION**

- Driving license, class B, EU
- Travelling and discovering, photography, skiing

### **REFERENCES**

Dr. Kay Knoeller

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Dr. Gerhard Strauch

Department of Hydrogeology

Helmholtz Centre for Environmental Research GmbH - UFZ, Leipzig, Germany

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Prof., Dr. Nataliia Shtemenko

Head of the Department of Biophysics and Biochemistry

Dnipropetrovsk National University by Oles Gonchar, Dnipropetrovsk, Ukraine

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