CURRICULUM VITAE

PERSONAL INFORMATION

Kamila Báťková (maiden surname: Špongrová)

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MAIN AREAS OF RESEARCH

i) Predictive soil-agrohydrological models to determine water retention in soils in the Czech Republic and their integration into the EU databases,

ii) Analysis and dissemination of research results in sustainable, integrated water resource management at river-basin scale within Ethiopia (project WATERMAN),

iii) Direct and indirect determination of the soil hydrophysical characteristics,

iv) Description and modelling of water and LNAPL movement through the soil profile,

v) Evaluation and comparison of different soil treatments with respect to their soil physical and hydrophysical characteristics.

WORK EXPERIENCE

2009 – present

Assistant Professor

Department of Water Resources, Faculty of Agrobiology, Food and Natural resources, Czech University of Life Sciences Prague

Kamýcká 129, 165 21 Praha 6 Suchdol, CR; http://www.czu.cz/en/

- Research assistant work, teaching, consultation for students:
  - Teaching in: Soil Physics, Hydropedology and Groundwater Protection, Soil and Water Relationship, Field Training in Soil and Water Relationship, International MSc. a PhD. courses in Soil and Water Relationship at the Estonian University of Life Sciences (BOVA cooperation project)
  - Consultation for students and their BSc. and MSc. projects; research aimed on direct and indirect determination of soil hydraulic properties, numerical modelling of water transport within the soil profile, sampling and transport of LNAPLs in a porous media

2003 – 2009

Scientific worker

Czech University of Life Sciences Prague, Faculty of Agrobiology, Food and Natural Resources, Department of Soil Science and Soil Protection, since 1 January 2009 at the Department of Water Resources (http://www.czu.cz)

- Research assistant work, teaching, consultation for students

EDUCATION AND TRAINING

2004 - 2010

Ph.D.

Faculty of Agrobiology, Food and Natural Resources, Czech University of Life Sciences Prague

- Theme of Ph.D. Thesis: "Determination of hydraulic conductivity in situ and influence of soil treatment"
- State doctorate exams in: Selected Chapters from Pedology and Hydropedology, Hydrology and Soil Hydrology, Hydrophysical Properties of Soils, Determination of Soil Properties In-situ, Laboratory and Computational Methods

2007
- Course: Mathematical Modelling in Vadose Zone – certificate; Czech Technical University in Prague (2007; 14 days)

2005 - 2006 MSc. by Research

Cranfield University at Silsoe (United Kingdom)

- Theme of the MSc. project: "Design of an automated tension infiltrometer for unsaturated hydraulic conductivity measurements"

2001
- Vitus Bering – Centre for Higher Education, Denmark – certificate; Erasmus Socrates program. Project work: "Risk assessment of landfill gas at waste centre Tandskov" (2001; 5 month)

1996 - 2003 Ing. (MSc.)

Faculty of Agronomy, Czech Agricultural University in Prague (now Czech University of Life Sciences Prague)

- Theme of the MSc. Thesis: "Pedotransfer functions as a tool for estimation of hydrophysical properties"
- Final state examination in: Soil Science, Soil Protection, Exploration of Soils and Soil Information System, Business Law

PERSONAL SKILLS

Technical skills: MS Windows, MS Office, MS Visio, Corel Draw, Dasy Lab, RETC, HYDRUS 1D and 2D, Statgraphics, software required to manage data from automated measurements: ECH20 utility to manage data from soil moisture and temperature sensors (Decagon Devices, Inc.), HH2 software to retrieve data measured by Theta Probe soil moisture sensors (Delta – T Devices Ltd.) , PC208W software to program the Campbell 21X datalogger (Cambell Scientific)

Language skills: English – good
German – basic

ADDITIONAL INFORMATION

Projects

- "LNAPL sampling and transport description in porous media" (20112036), All-University Internal Grant Agency, Czech University of Life Sciences Prague (2011-2013). Project leader.
- "Multimedial Study Guide of Field Hydropedological Measurements" (2719/2011), a project financed by the Ministry of Education of the Czech Republic - University Development Fund (2011). Project leader.
- "Predictive soil – agrohydrological models of water retention for soils in the Czech Republic and their integration into the European databases" (1G58095), financed by the Ministry of Agriculture of the Czech Republic, National Agency of Agriculture Research (2005-2009). Project collaborator.
- „Application and use of the Mini Disk infiltrometer (Decagon Devices Inc.) for estimation of some soil hydrophysical properties (sorptivity, saturated and unsaturated hydraulic conductivity)". Financed by internal grant of the Faculty of Agrobiology, Food and Natural Resources, CULS Prague (2008). Project leader.
- „WATERMAN - Dissemination of research results in semi-arid and arid ecosystems with a focus on sustainable water resource management in Ethiopia",INCO-CT-2006-031694, 6th Framework Programme EU (2006-2007). Project collaborator.
- "Numerical modelling of multiphase multicomponent pollutant migration in unsaturated and saturated soil (GA103/02/0971), financed by Czech Science Foundation (2002-2004). Project collaborator.

Memberships

- European Geosciences Union (2008)
- Czech Society of Soil Science (since 2011)