

# Curriculum Vitae

## Blanka Shaw (Buryová)

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### Degrees

- Ph.D. Department of Botany, Charles University, Prague, thesis: Morphological and genetic variation in selected species of the genus *Philonotis* (Bartramiaceae, Bryopsida), 2004  
RNDr. Department of Botany, Charles University, Prague, Czech Republic 2001  
MSc. Department of Botany, Charles University, Prague, Czech Republic 1996

### Professional experience

- 10/2004-present: Herbarium Data Manager, Department of Biology, Duke University, Durham, NC, USA  
1998-2004: Junior research fellow, graduate student, Department of Taxonomy and Biosystematics, Institute of Botany, Academy of Sciences of the Czech Republic, Průhonice (bryology)  
1996-1999: Graduate student, Charles University in Prague, Department of Botany (teaching assistant, course on Systematics and evolution of non-vascular plants and fungi)

### Research interests

Systematics of bryophytes, Ecological bioinformatics, Bryophyte ecology and diversity and dynamics in montane and alpine ecosystems; Bryophyte diversity in wetlands and hyperoceanic ecosystems.  
Field experience: British Isles, the Alps, Carpathians, Sudetes, Scandinavia (Europe); Alaska, Southeast USA, China, Australia.

### Research projects financed by grant agencies in the United States

National Geographic Society Foundation - *Sphagnum of Alaska*, Co-principal investigator, principal investigator: A.J. Shaw, 2004-2006

### Research projects financed by grant agencies in the Czech Republic

GACR 206/01/0411 **A synthesis of bryological data from the selected biodiversity centers of two mountain ranges in the High Sudetes** – Co-principal investigator, principal investigator: M. Zmrhalová, 2001-2003

GAČR 206/99/1416 **Diversity and dynamics of vegetation and soil organisms in spruce forests of the Šumava National Park** – Co-principal investigator, principal investigator: Z. Neuhäuslová, 1999-2001

GAUK 101/1998/B BIO/PrF **Study of phenotypic plasticity in *Philonotis* (Bryophyta)** – Co-principal investigator, principal investigator: J.Váňa, 1998-1999

### Courses and stays abroad

2005 Duke University, USA, Introduction to PCR, with Duncan Talbot, KT Biotech (1 day)

2003-2004 Duke University, USA; study of phenotypic plasticity and genetic diversity in bryophytes with A. J. Shaw (8 months)

1996-2003 University of Zurich, Switzerland; bryophyte determination courses (*Schistidium*, *Andreaea*, Leskeaceae, *Dicranum*)

1999 Charles University, Prague, Czech Republic; Stereology in Plant Anatomy, 28.6.-2.7. (1 week)

1999 Jagelonian University, Cracow, Poland; learning methods of chromosome staining in bryophytes with E. Kuta (1 week)

1998 Reading, UK; Advance course on Molecular Biology of Plants (2 weeks)

1997 University of Helsinki, Finland (1 week), Course on Peatland and Aquatic Bryophytes (2 weeks)

1995 Charles University, Prague, Course on molecular methods in fungi (1 week)

### Development and administration of special courses

1997 Identification course on the genus *Philonotis* (University of Zurich, Switzerland).

1998-2003 Field excursions of Czech Botanical Society, Dept. of Botany Charles University, Prague, Czech Rep.

1996-2003 Field excursions of Bryological Lichenological Section of Czech Botanical Society in Czech Rep.

### Professional activities and memberships

American Bryological and Lichenological Society

Secretary of Bryological Lichenological Section of the Czech Botanical Society (2004-)

Editor of the Czech bryological and lichenological bulletin *Bryonora* (1999-2006)

International Association of Bryologists

Schweizerische Vereinigung für Bryologie und Lichenologie

British Bryological Society

Czech Botanical Society

### Presentations at conferences

The IXth Australasian Bryophyte Workshop, Maydena, Tasmania, Dec 3-8, 2007 (poster)

West Siberian Peat and Carbon Cycle: Past and Present, Yugra State University, Khanty-Mansiysk, Russia, August 26-30, 2007 (poster)

Botany 2006, California State University – Chico, July 28-August 2, 2006 (poster)

International Conference of the natural history museums and museums in nature employees, 26.-28.5.2003, Liptovský Mikuláš, SK (lecture, poster)

IXth Congress of the Czech Botanical Society, Lednice, August 19-23, 2002 (lecture, poster)

4. International Conference of European Committee for Conservation of Bryophytes (ECCB), Průhonice, CZ, 1.-2.7.2001 (organizing committee, poster)

Geocological problems of the Giant Mountains (4), Svoboda nad Úpou, CZ, 19.-21.9.2000 (poster)

### Selected publications (in English)

Shaw A.J., Andrus R. & **Shaw B.** A new arctic species of *Sphagnum* (Bryophyta) based on morphological and molecular data. Submitted to Systematic Botany.

Shaw, A. J. T. Cao, L-S. Wang, K. I. Flatberg, B. Flatberg, **B. Shaw**, S. B. Boles, P. Zhou, & S. Terracciano. In press. Genetic variation in three Chinese peat mosses (*Sphagnum*) based on microsatellite markers, with primer information and analysis of ascertainment bias. *Bryologist*

Anderson L.E., Shaw A.J. & **Shaw B.** in press. Peatmosses (*Sphagnum*) of the Southeastern United States. New York Botanical Garden Press.

Hájková P., **Shaw B.**, Hájek M., Hinterlang D. & Plášek V. 2007. The role of base saturation and altitude in habitat differentiation within *Philonotis* in springs and mires of three different European regions. *Bryologist* 110(4): 776-787.

Hájková P., Plášek V., Hájek M., **Shaw B.**, Hradílek Z. 2007. Records 1-32. In Natcheva R. (ed.), New bryophyte records in the Balkans: 2. *Phytol. Balcan.* 13 (2) 277-289.

**Buryová B.**, Hradílek Z. (2006): Clonal structure, habitat age, and conservation value of the moss *Philonotis marchica* in Kotouč quarry (Czech Republic). *Cryptogamie Bryologie* 27 (3): 375-382.

**Buryová B.** & Shaw A.J. (2005): Phenotypic plasticity in *Philonotis fontana* (Bryopsida: Bartramiaceae). – *Journal of Bryology* 27:12-23.

**Buryová B.** (2004): Genetic variation in two closely related species of *Philonotis* based on isozymes. – *Bryologist* 107: 316-327.

Kucera J., **Buryová B.**, Plášek V., Vána J. Zmrhalová M. (2004): Bryophytes of the glacial cirques in the Giant Mountains and Hrubý Jeseník Mts. (the Czech Republic). In: Sturza J. et al. (eds.), *Geoekologické problémy Krkonos. Sborn. Mez. Ved. Konf., November 2003, Sklarska Poreba. Opera Corcontica* 41: 170-184.

Kucera J., Zmrhalová M., **Buryová B.**, Kosnar J., Plášek V., Vána J. (2004): Bryoflora of the glacial cirques of the Western Krkonose Mts. *Casopis Slezského Muzea, serie A*, 53: 1-47

Kucera J., Zmrhalová M., **Buryová B.**, Kosnar J., Plášek V., Vána J. (2004): Bryoflora of the Upska jama cirque and adjacent localities of the Eastern Krkonose Mts. *Casopis Slezského Muzea, serie A*, 53: 143-173.

- Suková M., Scheuer Ch. et **Buryová B.** (2003): New records and ecology of *Naeviopsis carneola* in Central Europe with notes on other fungi growing on *Juncus filiformis*. – *Czech Mycology* 55: 223-239.
- Kučera J., Hradílek Z., **Buryová B.** et Hájek P. (2003): *Hypnum sauteri* and *Lescurea patens*, two additions to the moss flora of the Czech Republic. – *Preslia* 75: 255-262.
- Kučera J. et **Buryová B.** (2001): Bryofloristic survey of the summit region of the Eastern Krkonoše Mts. (Czech Republic). – *Opera Corcontica* 36, 1999, 105-132.
- Buryová B.** et Kučera J. (1999): Two interesting bryofloristic records from the Krkonoše Mts - *Racomitrium macounii* subsp. *alpinum* and *Grimmia reflexidens*. – *Preslia* 71: 21-26.