

## Curriculum vitae: Dr Stefanie M Gärtner

Institute of Silviculture,  
Faculty of Forest and Environmental Science, University of Freiburg  
Tennenbacherstr. 4,  
79106 Freiburg, Germany  
stefanie.gaertner@waldbau.uni-freiburg.de  
Telephone: ++49 761 203 3672  
Fax: ++49 761 203 3781

### Present appointment

Since 01/2011      Researcher and Lecturer (Wissenschaftliche Angestellte) Institute of  
Silviculture, University of Freiburg

### ACADEMIC EDUCATION

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1993-1998:      Studies in Forest Science, Albert-Ludwigs University, Freiburg, Germany  
1998:            Diploma in Forest Science, Albert-Ludwigs University, Freiburg, Germany,  
1999-2003:      PhD position at the Albert-Ludwigs University, Freiburg, Institute of  
Silviculture  
2003:            PhD (Dr. rer. nat., summa cum laude), Albert-Ludwigs University, Freiburg,  
Germany

### ACADEMIC POSITIONS

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2004-2007:      Postdoctoral fellow and lecturer at the Institute of Silviculture, Albert-Ludwigs  
University, Freiburg, Germany  
03-09/2005:      Postdoctoral fellow, DAAD postdoc scholarship, USDA Forest Service  
Research Stations in South Burlington, Vermont and Corvallis, Oregon, USA  
2008-2010:      Postdoctoral fellow at the Department of Renewable Resources, University of  
Alberta, Edmonton, Canada  
Since 01/2011    Postdoctoral fellow and lecturer at the Institute of Silviculture, Albert-Ludwigs  
University, Freiburg, Germany

### PRIZES, FELLOWSHIPS, AWARDS

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2010    German Forest Science Award  
2005    German Academic Exchange Organisation (DAAD), Postdoc Scholarship

## **RESEARCH EXPERIENCE**

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### **POSTDOCTORAL FELLOW** (January 2008 – November 2010)

Northern Vegetation Ecology Group, Department of Renewable Resources, University of Alberta, Edmonton, Canada

- Data analysis and preparation of scientific manuscripts for projects related to boreal mixedwood forests – natural regeneration, biodiversity relationships, and effects of alternative forest management regimes.
- Assist in supervision of graduate students, particularly in terms of advising on experimental design and data analysis.
- Co-taught the undergraduate course “Forest Ecosystems” (Fall 2009) and advised two teaching assistants.
- Project: Benchmarking Natural Origin Stand Development

### **RESEARCHER & LECTURER** (January 2004 – December 2007)

Institute of Silviculture, Albert-Ludwigs University, Freiburg, Germany.

- Developed and taught fourteen ecology and methodological courses at the undergraduate and graduate level.
- Participated in various graduate student projects.
- Moderated and organized graduate student peer seminar (2001 – 2003) and the Institute of Silviculture seminar (2003 – 2005).
- Supervised and consulted graduate students (Diploma, Master, Ph.D), maintained an open door policy to consult with methodological questions.
- Participated in the institutes' organisation, in committees and in administration.
- Project: Conservation of flora and fauna in arid sites through the improvement of pine forests in the 'Trockenaue' (arid floodplain) along the Upper Rhine Valley. (DBU-Project):
- Project: Regeneration and Growth of Pedunculate Oak (*Quercus robur*) on xerothermous sites in the Upper Rhine Valley (Oberdorfer Foundation):

### **POSTDOCTORAL FELLOW** (March 2005 – September 2005)

German Academic Exchange Service (DAAD) Post-Doc Program at the USDA Forest Research Station in South Burlington, Vermont and Corvallis, Oregon.

Project: Analysis of the usability and implementation of existing North American decision support systems in the forestry sector. Case study: Evaluation of landscape integrity and management planning:

**PH.D. STUDENT (JUNE 1999 – JUNE 2003)**

Institute of Silviculture, Albert-Ludwigs University, Freiburg, Germany.

- Moderated and organized graduate student peer seminar (2001 – 2003) at the institute of silviculture.
- Taught 2 courses at the undergraduate and graduate level.
- Project: Effects of forest management on the vegetation and the naturalness of the forests in the southern Black Forest - consequences of the conversion of spruce dominated even-aged-forests to uneven-aged mixed-wood forests:

**RESEARCH ASSISTANT AND SHORT TERM CONTRACTS(1994 – 1999, 2003)**

Albert-Ludwigs University, Freiburg worked on various projects at the following institutes and departments: Forest Biometrics, Landscape Management, Silviculture and Vegetation Science and Site Classification.

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**TEACHING EXPERIENCE****PROFESSIONAL DEVELOPMENT IN TEACHING:**

Baden-Württemberg Certificate for teaching at the university level (2005)

Teaching Enhancement Series at the University of Alberta (2009)

**TEACHING PROJECTS:**

“**Nature conservation**” module (Workshop in Tirana, Albania) in the **TEMPUS Project "Curriculum Development in Forestry Sciences"** sponsored by the **European Union**.

**Intensive Programme “Site Classification of European Forests (SCEF)”** sponsored by the **European Union** within the Lifelong Learning Programme. Implemented as a cooperation between the Institute of Silviculture, Albert-Ludwigs University Freiburg, Germany, the Institute of Forest Botany-Geobotany, Aristotle University of Thessaloniki, Greece and Transilvania University of Brasov, Romania.

**COURSES TAUGHT:**

UNIVERSITY OF ALBERTA, EDMONTON, CANADA:

Forest Ecosystems (FOR322) – undergraduate course (3 credits, contribution 18h) co-instructed with Dr. Ken Stadt (Fall 2009)

ALBERT-LUDWIGS-UNIVERSITY, FREIBURG, GERMANY

**Courses in the Diplom-Programm – Forstwissenschaften (Forest science) (in German)**

- Field ecology methods in vegetation science and site classification - elective course 574d – graduate level (1999 – 2004, 2006 and 2007, complete course 20h)
- Theories and methods of vegetation science - elective course 128d – graduate level (1999 – 2007, complete course. 20h)
- Introduction to the multivariate methods applied in ecology -elective course 638d – graduate level (2003-2007, complete course 20h)

- Application of multivariate statistics in ecology – elective course 639d – graduate level (2005 and 2006, complete course 20h)
- Plant identification – elective course 127a – undergraduate level (2004, complete course 40h)
- Field practicum in Greece: Soil, climate, flora and vegetation management – elective course 716a – graduate level (2006, contribution: 15h) (English)
- Excursion in the Upper Danube Valley – elective course 619a – undergraduate level (2004, co-taught and organized - one week excursion - hiking and camping field trip)
- Penn State Excursion 09. – 21. October 2006 – elective course, graduate level (2006, organized pre- and post- student preparation (papers and presentations), Pennsylvania USA exchange program)

### **Courses in the BSc – „Waldwirtschaft und Umwelt“ (Forestry and Environment) (in German)**

- Plant identification: Flora, Vegetation & Fauna (BSc. minor subject "Nature Protection and Landscape Conservation") (2006, complete course: 40h)
- Plant identification: Flora, Vegetation & Fauna (BSc. minor subject "Environmental Sciences") (2006, complete course: 40h)

### **Courses and contributions to the Master's Program: Forest Ecology and Management (in English)**

- Methods in Community Ecology within the core module, Methods of Ecosystem Analysis – elective module (2007, complete course: 60h)
- Conservation Biology - core module (2006, contribution: 10h)
- Population and Community Ecology - core module (2006, contribution: 8h)
- Ecosystem Management - core module (2006, contribution 2h)

### **SUPERVISING AND ADVISING STUDENTS**

#### **ADVISING PH.D STUDENTS:**

- The evolution and current state of nutrient poor, acid swamp forests in the northern Black Forest region, south-west Germany. (2004 – present)
- The drought tolerance limit of European beech (*Fagus sylvatica* L.) stands on Mt. Olympus, NC Greece. (2004 – 2009)
- Natural Small-Scale Disturbances and Below-Canopy Solar Radiation Effects on the Regeneration Patterns in a *Nothofagus betuloides* Forest – A Case Study from Tierra del Fuego, Chile. (2005 - 2008)
- Vegetation und Standorte von Aufforstungen im Bereich der Provinz Shaanxi, V.R. China.  
[Vegetation and reforestation site conditions in the province of Shaanxi, P.R. China] (2000 – 2001)

## ADVISING MASTER STUDENTS DURING THEIR SIX MONTH PROJECTS:

- Morphologische Variabilität des griechischen Tannenhybriden *Abies x borisii-regis* (Mattfeld). [Morphological variability of Greek fir hybrids *Abies x borisii-regis* (Mattfeld).] (2008)
- Verjüngung und Jugendwachstum von natürlichen angesamten Stieleichen (*Quercus robur*) auf Xerothermstandorten am südlichen Oberrhein.  
[Regeneration and growth of naturally regenerated pedunculate oak (*Quercus robur*) on xerotherm sites in the southern upper Rhine valley.] (2007)
- Regeneration of the main coniferous species (*Pinus pinea* L., *Pinus halepensis* Mill. & *Juniperus oxycedrus* L. ssp. *macrocarpa* (Sibth. & Sm.) Ball) of the pine forest of the Schinias & Marathon National Park, Greece. (2007)
- Waldstruktur in Habitaten des Dreizehenspechts im Südschwarzwald.  
[Forest structure in habitats of the Three-toed Woodpecker in the southern Black Forest.] (2006)
- Kiefernwälder der Trockenaue am Oberrhein – Vegetation, Naturverjüngung und Totholz in Abhängigkeit von der Bestandesstruktur.  
[Pine stands in the dry alluvial site in the upper Rhine valley – vegetation, natural regeneration and coarse woody debris in relation to forest structure.] (2006)
- 15 Jahre Waldentwicklung nach Sturm „Wiebke“. Externe Diplomarbeit, Universität Oldenburg. [15 years of forest development after the storm „Wiebke“.] (2006)
- Ein Vergleich der Elementgehalte von ausgesuchten Arten der Bodenvegetation (*Vaccinium myrtillus*, *Deschampsia flexuosa* und *Rhytidiadelphus loreus*) zwischen gedüngten und ungedüngten Waldflächen im Nordschwarzwald zur Untersuchung der langfristigen direkten Wirkungen von Walddüngung.  
[Comparison of the element content of selected species of the ground vegetation (*Vaccinium myrtillus*, *Deschampsia flexuosa* and *Rhytidiadelphus loreus*) between fertilized and unfertilized forest stands in the northern Black Forest.] (2004)
- Zur Eignung des Dreizehenspechts (*Picoides tridactylus alpinus*) als „umbrella-species“ für die Avizönose hochmontaner Fichtenwälder im Hochschwarzwald. [Suitability of the Three-toed Woodpecker (*Picoides tridactylus alpinus*) as an umbrella species for the avicoenoses of the high montane spruce forests of the high Black Forest.] (2004)
- Der Speierling (*Sorbus domestica* L.) im Großherzogtum Luxemburg.  
[The true service tree (*Sorbus domestica* L.) in the dukedom Luxemburg.] (2003)
- Einfluss von Holzernte und Beweidung auf die Struktur von Bergmischwäldern in Ghetari, Apuseni-Gebirge, Rumänien.  
[Impact of logging and grazing on the structure of mixed mountain forests in Ghetari, Apuseni mountain range, Romania.] (2003)
- Methodenvergleich zur Erhebung der Bodenvegetation im Wald.  
[Comparison of forest ground vegetation assessment methods.] (2003)
- Vegetation, Nutzungsgeschichte und Standortbedingungen eines Flaumeichenwaldes bei Tagolsheim, Elsass, Frankreich.  
[Vegetation, land use history and site conditions of a downy oak forest by Tangelshaim, Alsace, France.] (2003)

- Die Naturverjüngung der Wälder im Apuseni-Gebirge Rumäniens und ihre Beeinflussung durch die Waldweide.  
[Natural regeneration of forests in the Apuseni-mountain range of Romania and the impact of grazing.] (2002)
- Die Waldvegetation an Sonnenhängen im Apuseni-Gebirge Rumäniens.  
[Forest vegetation on southern slopes in the Apuseni-mountain range in Romania.] (2000)

## **SERVICE**

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- Reviewed manuscripts for: European Journal of Forest Research, Forest Ecology and Management, International Forestry Review, Plant Ecology, International Journal of Biometeorology
- Substitute female guidance counsellor (Faculty of Forest and Environmental Science, University of Freiburg) (2005-2007)
- Member of the Ph.D examination committee (Faculty of Forest and Environmental Science, University of Freiburg) (2007)
- Faculty of Forest Science Ph.D. student representative on the steering committee of the interdisciplinary research group for the BMBF (German Ministry of Education and Research) Research program of the Southern Black Forest (1999-2001)

## **ADDITIONAL WORK EXPERIENCE**

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**INTERNSHIP** at the Zurmöhle & Jenne **LANDSCAPE PLANNING OFFICE** (February – April 1997)

in Freiburg, Germany with an emphasis on waterway development concepts and environmental compatibility studies for various road construction projects and flood control measures

**INTERNSHIP IN ORGANIC HORTICULTURE** (September 1996)

at the Benedictine Abbey in Fulda, Germany

**GARDENER'S APPRENTICESHIP** (September 1991 – August 1993)

Garden and landscape design, with the firm Garten Moser in Reutlingen, Germany Qualification: GARDENER

**INTERNSHIP** (February – May 1991)

at the Bad Liebenzell, Baden-Württemberg Forest Administration

**STUDY ABROAD – Boreal Forestry** (August – December 1990)

in Svenljunga, Sweden. Skogsgymnasiet practical forest work, Boreal forest tending, forest harvesting and utilisation concepts

## **MEMBERSHIPS**

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- Ecological Society of Germany, Austria and Switzerland - GrÖ
- International Association for Vegetation Science
- Society for Ecological Restoration International
- Society for Conservation Biology (SCB)

## **PUBLICATIONS**

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### **PEER REVIEWED JOURNAL ARTICLES AND BOOK CHAPTERS:**

- Promis, A., **Gärtner, S.**, Butler-Manning, D., Durán-Rangel, C., Reif, A., Cruz, G., Hernández; L. (in press): Comparison of four different programs for the analysis of hemispherical photographs using parameters of canopy structure and solar radiation transmittance. *Waldökologie Online* (pdf 1.1 M; urn:nbn:de:0041-afsv-01117)
- Promis, A., **Gärtner, S.**, Reif, A., Cruz, G. (2010): Effects of natural small-scale disturbances on below-canopy solar radiation and regeneration patterns in an old-growth *Nothofagus betuloides* forest in Tierra del Fuego, Chile. *Allgemeine Forst und Jagdzeitung*, 181(3/4):45-53
- Ludwig, T.; Storch I.; **Gärtner, S.** (2009) Large-scale land-use change may explain bird species declines in semi-natural areas: the case of black grouse population collapse in Lower Saxony, Germany. *Journal of Ornithology* 150 (4): 871-882.
- Gärtner, S.**, Reynolds, K. M., Hessburg, P. F., Hummel, S., Twery, M. (2008): Decision support for evaluating landscape departure and prioritizing forest management activities in a changing environment. *Forest Ecology and Management*, 256, 1666–1676.
- Gärtner, S.**, Reif, A., Xystrakis, F., Sayer, U., Bendagha, N., Matzarakis, A. (2008): The drought tolerance limit of *Fagus sylvatica* forests on limestone in southwestern Germany. *Journal of Vegetation Science*, 19, 757-768.
- Gärtner, S.**, Nill, M., Prinz, J., Essmann, H., Reif, A. (2008): Transparenz in der Landschaftsplanung: Partizipation und Verwendung eines Entscheidungsunterstützungssystems am Beispiel xerothermer Lebensräume der „Trockenaue“ am Südlichen Oberrhein. *Naturschutz und Landschaftsplanung*, 40/8, 229-238.  
[Transparency in Landscape Planning – Participation and application of a Decision Support System using the example of xerothermic habitats at the Southern Upper Rhine Valley]
- Salamon, J.-A., Zaitsev, A., **Gärtner, S.**, Wolters, V. (2008): Soil macrofaunal response to forest conversion from pure coniferous stands into semi-natural montane forests. *Applied Soil Ecology*, 40, 491-498.
- Reif, A., **Gärtner, S.** (2007): Die natürliche Verjüngung der laubabwerfenden Eichenarten Stieleiche (*Quercus robur* L.) und Traubeneiche (*Quercus petraea* Liebl.) - eine Literaturstudie mit besonderer Berücksichtigung der Waldweide. *Waldökologie Online* 5, 79-111.  
[Natural regeneration of the deciduous oak species Pedunculate Oak (*Quercus robur* L.) and Sessile Oak (*Quercus petraea* Liebl.) – a literature review with focus on wood pasture.]
- Gärtner, S.**; Reif, A. (2005): The response of ground vegetation to structural change during forest conversion in the southern Black Forest, Germany. *European Journal of Forest Research* 124, 221-231
- Dounavi, A., **Gärtner, S.**, Ludemann, T., Kretschmer, J., Reinbolz, A., Salamon, J. A (2005). Ökologische und landschaftliche Aspekte - Standort, Geschichte, Vegetation, Verjüngungsstruktur, Bodenfauna, Genetik. 85-149 In: Teuffel von K. Baumgarten M., Hanewinkel M., Konold W., Sauter U. H. Spiecker H., Wilpert von K. (Hrsg.) (2005) *Waldumbau für eine zukunftsorientierte Waldwirtschaft*. Springer, Berlin, 422 S. [Aspects of ecology and landscape – site, history, vegetation, regeneration structure, soil fauna, genetics. In: *Forest conversion for a future-oriented forestry*.]
- Gärtner, S.**; Reif, A. (2004): The impact of forest transformation on stand structure and ground vegetation in the southern Black Forest, Germany. *Plant and Soil* 264, 25-34
- Knoerzer, D.; **Gärtner, S.** (2003): Was umschreibt Verhagerung? *Forstarchiv* 74, 16-25 [What is transliterated by the term 'Verhagerung' (depletion)?]

**JOURNAL ARTICLE IN REVIEW:**

- Gärtner, S.M.**, Lieffers, V.J., Macdonald, S.E.: Ecology and management of natural regeneration of white spruce in the boreal forest. *Environmental Reviews* (submitted)
- Promis A., **Gärtner S.**, Reif A., Cruz G.: Small-scale natural disturbances and tree development processes in two forests dominated by *Nothofagus betuloides* in Tierra del Fuego. *Revista Bosque* (submitted)

**NON-REVIEWED PUBLICATIONS:**

- Promis A., Reif A., Cruz G., **Gärtner S.** (2009) Südbuchenwälder in Patagonien und Feuerland. *Natur und Museum* 139(7/8): 236-245  
[Southern beech forests in Patagonia and Tierra del Fuego.]
- Promis, A., Cruz, G., Reif, A., **Gärtner, S.** (2008): *Nothofagus betuloides* (Mirb.) Oerst. 1871 (FAGALES: NOTHOFAGACEAE) forests in southern Patagonia and Tierra del Fuego. *Anales del Instituto de la Patagonia, Chile*. 36/1, 53-67.
- Uhl, A., Reif, A., **Gärtner, S.** (2008): Naturverjüngung der Stieleiche (*Quercus robur* L.) im Gebiet der „Trochenaue“ am südlichen Oberrhein (Südwestdeutschland). *Carolinea*, 66, 15-34.  
[Natural regeneration of pedunculate oak (*Quercus robur*) on xerotherm sites in the southern upper Rhine valley.]
- Bendagha N, **Gärtner S.**, Sayer, U, Reif A (2004): Vegetation, Standort und Nutzungsgeschichte eines Flaumeichenwaldes bei Tagolsheim, Elsaß, Frankreich. *Ber. Naturf. Ges. Freiburg* 94, 127-150  
[Vegetation, site and land use history of a downy oak forest by Tangolshaim, Alsace, France]

**BOOKS AND PUBLISHED REPORTS:**

- Gärtner, S.**, Reif, A., Nill, M., Prinz, J., Essmann, H. (2008): Integration von Naturschutzziele in die Landnutzung: Lösung von Zielkonflikten durch Partizipation und mithilfe eines Entscheidungsunterstützungssystems. *Umweltwissenschaften*, Shaker Verlag, Achen, 220 S.  
[Integration of nature conservation goals in landuse planning: Solutions to land use conflicts by participation and the use of a decision support system.]
- Pokorny, B., Bauhus, J., Seebauer, M., Dai, C., Schmitt, J., Frei, H. J., Butler-Manning, D., **Gärtner, S.** (2008): Sustainable Forest Management in Western China: A manual for the Xiaolongshan Forest Bureau. Ed.: Institute of Silviculture, Faculty of Forest and Environmental Sciences University of Freiburg, 98 p.
- Gärtner, S.** (2004): Auswirkungen des Waldumbaus auf die Vegetation im Südschwarzwald. *Freiburger Forstliche Forschung*, 26. 233. S. (Ph.D Thesis)  
[Impact of forest conversion on the ground vegetation in the southern Black Forest.]

**CONFERENCE PROCEEDINGS:**

- Reif, A.; **Gärtner, S.** (2006): Naturschutz durch Nutzung des Waldes - Widerspruch in sich oder glückliche Fügung? Tagung Naturschutz durch Nutzung. Mainz, 10.11.2005  
*Denkanstöße* 4/1, 22-33  
[Nature conservation by utilisation of the forest – contradiction or fortunate coincidences.]
- Gärtner, S.**; Engelhard, J. (2005): Diversität versus Naturnähe - Einfluss von Baumarten auf die Bodenvegetation im Südschwarzwald und auf der Schwäbischen Alb. In: Bauhus, J.; Csapek, G. (Hrsg.): Beiträge zur Tagung 2004 der Sektion Waldbau DVFFA, 06.-08. September 2004 in Freiburg/Staufen. *Berichte Freiburger Forstliche Forschung* 60, 37-47



[Diversity versus naturalness – Impact of tree species composition on the ground vegetation in the southern Black Forest and in the Swabian Alb.]

- Gärtner, S.** (2005): Auswirkungen des Waldumbaus auf die Vegetation im Südschwarzwald – Methodisches Vorgehen zur Bearbeitung einer komplexen vegetationsökologischen Fragestellung. In: Wunn, U.; Quednau, H.D.: Beiträge von der 15. und 16. Jahrestagung der Sektion Forstliche Biometrie und angewandte Informatik des DVFFA in Freiburg 2003 und München 2004. Ljubljana: DVFFA - IUFRO - Die grüne Reihe, 7-24  
[Impact of forest conversion on the ground vegetation in the southern Black Forest – methodological procedure to analyze a complex ecological question.]
- Guo, J.; **Gärtner, S.** (2003): Vegetations- und bodenkundliche Untersuchungen als Basis für eine Standortsklassifikation in der Maowusu-Sandwüste, Nord-China, Landschaftsentwicklung und Umweltforschung 112, 17-28  
[Vegetation and soil analysis as a base for site classification in the Maowusu sand desert, northern China.]

#### UNPUBLISHED REPORTS AND THESIS:

- Gärtner, S.**, Bokalo M., Stadt, K., Macdonald, S.E. (2009): Benchmarking Natural Origin Stand Development. Final report to Forest Resource Improvement Association of Alberta (FRIAA) and Mixedwood Management Association (MWMA) 372p
- Reif A., Essmann H., **Gärtner S.**, Nill M., Prinz J. (2007): Erhalt der Flora und Fauna von Trockenstandorten durch Aufwertung von Kiefernwäldern in der so genannten "Trockenaue" am Oberrhein Abschlussbericht an die Deutschen Bundesstiftung Umwelt Az.:22179-33/0, 178p  
[Preservation of the flora and fauna of xerotherm sites by improvement of the pine forests on dry alluvial sites in the upper Rhine valley.]
- Gärtner S.** (2005) Analysis of the usability and implementation of existing North American decision support systems in the forestry sector. Case study: Evaluation of landscape integrity and management planning. Research report for the DAAD post-doctoral scholarship PKZ: D/04/01349. 37p
- Gärtner, S.**, Reif A. (2004) Auswirkungen forstwirtschaftlicher Verfahren auf Vegetation und Naturnähe der Wälder im Südschwarzwald. Folgen des Umbaus fichtendominierter Altersklassenwälder in gemischtartige, gemischtaltrige Dauerwälder. Abschlussbericht zum Förderkennzeichen 0339732, Teilprojekt C2: Auswirkungen des Waldumbaus auf die Vegetation BMBF- Förderschwerpunkt „Zukunftsorientierte Waldwirtschaft“ Projektverbund "Südlicher Schwarzwald" 141p  
[Impact of forestry measures on vegetation and naturalness of the forests in the southern Black Forest: effects of forest conversion on spruce dominated even-aged forests to mixed, unevenaged continuous cover forests.]
- Gärtner S.** (1998): Was ist „Verhagerung“? Diplomarbeit am Waldbau-Institut, Forstwissenschaftlichen Fakultät der Albert-Ludwigs Universität Freiburg im Brsg. 167p  
[What is the meaning of the term 'Verhagerung'? (a term used in German forest site classification in the context of soil nutrient impoverishment and litter depletion)]

## PRESENTATIONS

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### INVITED PRESENTATIONS:

- Gärtner S.:** Der weite Weg von der Wissenschaft zur Praxis: Wie können waldökologische Erkenntnisse umgesetzt werden? Forstwissenschaftliche Tagung 2010, Fakultät für Forstwissenschaften und Waldökologie der Universität Göttingen, 22. September 2010  
[The long way from science to practice: how to transfer scientific knowledge?]
- Gärtner S.,** Bokalo M., Stadt K., Macdonald S. E., Comeau P.G: Post-fire regeneration of boreal mixedwoods. Institute of Silviculture Seminar, Albert-Ludwigs University, Freiburg, 13. January. 2010
- Gärtner S.,** Bokalo M., Stadt K., Macdonald S. E., Comeau P.G: Benchmarking Natural Origin Stand Development. Comparison between fire-originated stands and post- harvest stands. Meeting Mixedwood Management Association (MWMA) University of Alberta, Edmonton, 6. October 2009
- Gärtner S.,** Bokalo M., Stadt K., Macdonald E., Comeau P.G: Benchmarking Natural Origin Stand Development. 2009 WESBOGY Annual Fall Meeting – Whitecourt, Alberta, 15 – 16. September. 2009
- Gärtner S.** und Prinz J.: Der Weg zu einem neuen Landnutzungskonzept für die "Trockenaue" – Ergebnisse eines DBU-Projektes. Landschaft im Wandel – Die Zukunft der Trockenaue am südlichen Oberrhein. Tagung der Akademie Ländlicher Raum Baden Württemberg und des Waldbau-Instituts der Albert-Ludwigs Universität Freiburg. Neuenburg am Rhein, 28. November 2007,  
[The path to a new land use concept for the dry alluvial sites in the upper Rhine valley.]
- Gärtner, S.:** Aspects of Forestry and Nature Conservation in Baden-Württemberg. USDA Forest Service, Pacific Northwest Research Station, Corvallis (Oregon) USA, Seminar 12.July.2005
- Gärtner, S.:** Nature Conservation and Forestry in Southwest Germany. USDA Forest Service, Northeastern Research Station, South Burlington (Vermont) USA, Seminar 14.April.2005
- Gärtner, S.:** Auswirkungen des Waldumbaus auf die Artenzusammensetzung der Vegetation und die Struktur der Wälder im Südschwarzwald. Pflanzenökologisches Kolloquium des Instituts für Pflanzenwissenschaften der Universität Bern, 12.November.2003  
[Impact of forest conversion on the ground species composition and the structure of the forests in the southern Black Forest.]
- Gärtner S.:** Auswirkungen des Waldumbaus auf die Artenzusammensetzung der Vegetation und die Struktur der Wälder im Südschwarzwald. Max-Planck-Institut für Biogeochemie Jena, 17.July.03  
[Impact of forest conversion on the ground species composition and the structure of the forests in the southern Black Forest.]
- Gärtner S.:** Der Einfluss des ökologischen Waldumbaus auf Vegetation und Bestandesstruktur der Wälder im Südschwarzwald." BMBF-Fachkolloquium „Zukunftsfähige Waldwirtschaft und Biodiversität“ in Erfurt, 8./9. November. 2002  
[The effect of the ecological conversion on vegetation and stand structure of the forests in the southern Black Forest.]
- Gärtner S:** Auswirkungen des Waldumbaus auf die Artenzusammensetzung der Vegetation und die Struktur der Wälder im Südschwarzwald. Kolloquium des Waldbau-Instituts der Georg-August-Universität Göttingen, 28.November.2002  
[Impact of forest conversion on the ground species composition and the structure of the forests in the southern Black Forest.]
- Gärtner S.,** Reif A.: Präsentation der Methodik zum Forschungsprojekt: „Auswirkungen forstwirtschaftlicher Verfahren auf Vegetation und Naturnähe der Wälder im Südschwarzwald. Folgen des Umbaus fichtendominierter Altersklassenwälder in

gemischtaltrige, gemischtartige Dauerwälder. BMBF-Fachkolloquium „Flora, Fauna und Genetik“ in Freiburg, 15./16. November. 2000

[Method presentation of the research project: Impact of forestry measures on vegetation and naturalness of the forests in the southern Black Forest: effects of forest conversion of spruce dominated even-aged forests to mixed, unevenaged continuous cover forests.]

## CONFERENCE PRESENTATIONS:

### *Oral presentations:*

- Gärtner S.**, Bokalo M., Stadt K., Macdonald E., Comeau P.G.: The impact of pre-fire cover type on the post-fire composition and structure of upland forest in the Boreal mixedwood region of Alberta, CIF - Forest Ecology Working Group Workshop "Forest Ecosystem Resilience", Jasper Alberta Canada, 29.-30. September 2010
- Gärtner S.**, Bokalo M., Stadt K., Macdonald E., Comeau P.G.: Structure and Composition of Post-Fire Regeneration on Upland Sites in Alberta. p. 24. Seventh North American Forest ecology Workshop, Logan, Utah USA, 22-26 June 2009
- Xystrakis F., Reif A., Jaeger L., **Gaertner S.**, Theodoropoulos K., Matzarakis A. & E. Eleftheriadou: The drought tolerance threshold of *Fagus sylvatica* stands on Mt. Olympus, NC Greece. 52nd International Symposium of the International Association for Vegetation Sciences. 30. Chania, Crete, Greece. 30.May-4June 2009
- Gärtner S.**, Reif A., Nill M., Prinz J., Essmann H: Increasing public support and acceptance using participation and a decision support system to preserve xerotherm habitat on previous alluvial sites in the upper Rhine valley, Germany. p 176, 6th European Conference on Ecological restoration. Towards a sustainable future for European ecosystems. Ghent, Belgium, 8-12 September 2008
- Promis A, Reif A, **Gärtner S**, Cruz G (2008) Effects of natural small-scale disturbances on light conditions, regeneration patterns and understorey plant species diversity in an old-growth evergreen *Nothofagus betuloides* forest in Tierra del Fuego, Chile. Abstract in Proceedings of 'Old Forest, New Management' Sir Mark Oliphant Conference, p. 83, Hobart, Australia, 17-21. February 2008,..
- Gärtner, S.**, Reynolds, K., Twery, M., Hummel, S., Hessburg, P.: Decision support as a tool to apply ecological knowledge in landscape silviculture for restoration and adaptation objectives. p. 39, North American Forest Ecology Workshop, Vancouver, Canada, 18.-20.June.2007
- Gärtner, S.**, Engelhard, J. Reif, A.: Einfluss der Baumartenwahl auf die Bodenvegetation im Südschwarzwald und auf der Schwäbischen Alb. Forstwissenschaftliche Tagung 2004 - Wald im Wandel: Forstliche Vegetationskunde und Waldumbau in München/Weißenstephan, 6.-8.October.2004  
[Impact of tree species selection on the ground vegetation in the southern Black Forest and the Swabian Alb]
- Gärtner, S.**, Engelhard, J. Reif, A.: Diversity versus Naturalness - The influence of tree species on the ground vegetation in the southern Black Forest and in the Swabian Alb. Jahrestagung der Gesellschaft für Ökologie in Giessen, 13.-17. September. 2004
- Gärtner, S.**, Engelhard, J. Reif, A.: Schutz von Biodiversität in Wäldern: Diversität versus Naturnähe - Einfluss der Baumartenwahl auf die Bodenvegetation im Südschwarzwald und auf der Schwäbischen Alb. Naturschutz und Forstwirtschaft im Dialog "Schutz der Biologischen Vielfalt im Wald", am Bundesamt für Naturschutz - Internationale Naturschutzakademie Insel Vilm, 26.-29.September.2004  
[Conservation of biodiversity in forests: diversity versus naturalness – The impact of tree species selection on the ground vegetation in the southern Black Forest and the Swabian Alb.]

- Gärtner, S.**, Engelhard, J. Reif, A.: Diversität versus Naturnähe - Einfluss von Baumarten auf die Bodenvegetation im Südschwarzwald und auf der Schwäbischen Alb. Jahrestagung 2004 der Sektion Waldbau des DVFFA in Staufen, 06.-August.9. 2004 [Diversity versus naturalness – Impact of tree species composition on the ground vegetation in the southern Black Forest and in the Swabian Alb.]
- Gärtner, S.**, Reif, A.: The Effects of Forest Conversion on Ground Vegetation in the Southern Black Forest. CONFOREST – International Conference: “The Question of CONversion of Coniferous FORESTS”, in Freiburg 27.09. – 02.October.2003
- Gärtner, S.**, Reif, A.: Auswirkungen des Waldumbaus auf die Vegetation im Südschwarzwald – Methodisches Vorgehen zur Bearbeitung einer komplexen vegetationsökologischen Fragestellung. 15. Jahres-Tagung der Sektion Forstliche Biometrie und Informatik des DVFF in Freiburg vom 9.-10.October.2003  
[Impact of forest conversion on the ground vegetation in the southern Black Forest – methodological procedure to analysis a complex ecological question.]
- Gärtner S.**, Reif A.: Auswirkungen des „ökologischen“ Waldumbaus auf die Artenzusammensetzung der Vegetation und die Struktur der Wälder im Südschwarzwald Jahrestagung der Gesellschaft für Ökologie in Cottbus, 16.-20. September. 2002  
[Impact of the ecological forest conversion on the composition of the ground vegetation and the structure of the forests in the southern Black Forest.]

*Poster presentations:*

- Gärtner S.**, Reif A., Nill M., Prinz J., Essmann H.: Integrating local interests in land use planning for conservation in a changing environment – a case study from the Upper Rhine Valley in Southwest Germany. 24th International Congress for Conservation Biology (ICCB 2010), Conservation for a changing planet. Edmonton, Alberta, Canada. July 3-7, 2010.
- Promis, A., Durán-Rangel, C., Butler-Manning, D., **Gärtner, S.**, Reif, A., Cruz, G. 2008. Estimation of solar radiation transmittances from hemispherical photographs using four different programmes. In: Freiburger Forstliche Forschung. Berichte 76. Forstwissenschaftliche Tagung. S. 111. Ressourcenknappheit und Klimaänderung: Herausforderung für die Forstwirtschaft. Albert-Ludwigs-Universität Freiburg im Breisgau. 24.-27 September 2008.
- Promis, A., Reif, A., Cruz, G., **Gärtner, S.** 2007. Do natural small-scale disturbances change the understorey plant species diversity in an evergreen broadleaved *Nothofagus betuloides* forest at high southern hemisphere latitude? In: Becker, U., Becker, T., Brandl, R., Ziegenhagen, B. (eds) Proceedings of the 37th Annual Conference of the Ecological Society of Germany, Austria and Switzerland in Marburg, Germany, 10-14 September 2007
- Nill, M., **Gärtner, S.**, Reif, A., Essmann, H., Prinz, J.: Restoring xerotherm habitats by converting pine forests on previous alluvial sites in the upper Rhine valley, Germany - finding new landuse systems via participation. Formalised and Non-Formalised Methods in Resource Management - Knowledge and Learning in Participatory Processes. Osnabrück, 21.-22.09.2006.
- Nill, M., **Gärtner, S.**, Reif, A., Essmann, H., Prinz, J.: Restoring xerotherm habitats by converting pine forests on previous alluvial sites in the upper Rhine valley, Germany - finding new landuse systems via participation. Forstwissenschaftliche Tagung 2006, Tharandt-Dresden 20.-22.09.2006
- Xystrakis, F., Reif, A., Bendagha, N., Jaeger, L., Matzarakis, A., Theodoropoulos, K., **Gaertner, S.**, Sayer, U.: The Drought Limit of Beech – from Temperate to Submediterranean Climate. Forstwissenschaftlichen Hochschulwoche: “Oekosystem Wald – Rohstoff Holz – Prinzip Nachhaltigkeit”. Dresden/Tharandt, 04.-06.09.2006.

- Xystrakis, F., Reif, A., Bendagha, N., Jaeger, L., Matzarakis, A., Theodoropoulos, K., **Gaertner, S.**, Sayer, U.: The Drought Limit of Beech – from Temperate to Submediterranean Climate. International Congress “Ecology and Biodiversity Conservation”. Ioannina, Greece 11.2006
- Gärtner, S.**; Reynolds, K.M.; Twery, M.; Hessburg, P.; Stevens Hummel, S.: Multikriterielle Entscheidungsunterstützungsmethoden und Entscheidungs-unterstützungssysteme für die Forsteinrichtung – Tagung der Arbeitsgemeinschaft Forsteinrichtung, in Teisendorf 12.-13. 10. 2005  
[Multicriteria decision support methods and decision support systems in forest planning.]
- Nill, M., **Gärtner, S.**, Reif, A., Essmann, H., Prinz, J.: Preservation of Flora and Fauna of xerotherm habitats through conversion of pine forests on previous alluvial sites in the upper Rhine valley, Germany. Multifunctionality of Landscapes – Analysis, Evaluation and Decision Support. International Conference in Giessen, May 18-19, 2005
- Gärtner, S.**, Reif, A.: Auswirkungen des Waldumbaus auf Bestandesstruktur und Artenzusammensetzung der Wälder im Südschwarzwald. Waldumbau im globalen Wandel - Forstwissenschaftliche Tagung Göttingen, 2002  
[Impact of forest conversion on forest structure and species composition of the forests in the southern Black Forest.]
- Gärtner, S.**, Reif A.: Auswirkungen des Waldumbaus im Südschwarzwald auf Waldstruktur und Artenzusammensetzung. 2. Freiburger Geobotanisches Kolloquium, Freiburg 2001  
[Forest conversion in the southern Black Forest – impact on stand structure and species composition.]
- Gärtner, S.**, Knoerzer, D., Reif, A.: Was ist Verhagerung - ein Begriff zur Verwirrung oder zur Verständigung? Forstwissenschaftliche Tagung in Freiburg, 2000  
[What is meant by ‚Verhagerung‘ – a term for communication or confusion?]