

CURRICULUM VITAE

P

PUBLICATIONS (continued)

- Schumaker, M.A., J.H. Bassman, R. Robberecht, and G. Rademaker. 1997. Growth, leaf anatomy, and physiology of *Populus* clones in response to solar ultraviolet-B radiation. *Tree Physiology* 17:617-626.
- Defossé, G.E., M.B. Bertiller, and R. Robberecht. 1997. Soil water, topography, grazing, and wind effects on emergence and survival of *Festuca* spp. in a grassland of Patagonia. *Journal of Vegetation Science* 8:677-684.
- Defossé, G.E., R. Robberecht, and M.B. Bertiller. 1997. Seedling dynamics of *Festuca* in Patagonia: Competition, microsites, and grazing. *Journal of Range Management* 50:73-79.
- Kolb, P.F. and R. Robberecht. 1996. *Pinus ponderosa* seedling establishment and the influence of competition with the bunchgrass, *Agropyron spicatum*. *International Journal of Plant Sciences* 157:509-515.
- Kolb, P.F. and R. Robberecht. 1996. High temperature and water stress effects on the survival of *Pinus ponderosa* seedlings. *Tree Physiology* 16:665-672
- Defossé, G.E. and R. Robberecht. 1996. Effects of competition on the postfire recovery of 2 bunchgrass species. *Journal of Range Management* 49:137-142.
- Defossé, G.E., M.B. Bertiller, and R. Robberecht. 1995. Germination characteristics of *Festuca pallescens*, a Patagonia bunchgrass with reclamation potential. *Seed Science and Technology* 23:715-723.
- Defossé, G.E. and R. Robberecht. 1995. Ecological and socio-economic strategies for rangeland of the Chubut province, Argentina, for the next century. In J. Powell, editor, Proceedings, International Development Symposium, Society for Range Management, Denver, Colorado, USA.
- Robberecht, R. and G.E. Defossé. 1995. The relative sensitivity of two bunchgrass species to fire. *International Journal of Wildland Fire* 5:127-134.
- Junttila, O. and R. Robberecht. 1993. The influence of season and phenology on freezing tolerance in *Silene acaulis* L., a subarctic and arctic cushion plant of circumpolar distribution. *Annals of Botany* 71:423-426.
- Robberecht, R. and O. Junttila. 1992. The freezing response of an arctic cushion plant, *Saxifraga caespitosa* L.: Acclimation, freezing tolerance and ice nucleation. *Annals of Botany* 70:129-135. with the bunchgrass,
- Alcocer-Ruthling, J.B.s

CONTRIBUTED PAPERS (continued)

Bassman, J.H., G.E. Edwards, and R. Robberecht. 2000. Effects of enhanced UV-B radiation on six north

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CONTRIBUTED PAPERS (continued)

Robberecht, R. and M.M. Caldwell. 1982. Analysis of leaf optical properties. Abstract, Association Internationale de Photobiologie, International workshop of the Effects of ultraviolet radiation on plants, New Delhi, India.

Caldwell, M.M., R. Robberecht, and S.D. Flint. 1982. Internal filters: Prospects for UV-acclimation in higher plants. Abstract, Association Internationale de Photobiologie, International workshop of the Effects of ultraviolet radiation on plants, New Delhi, India.

Robberecht, R. and P.S. Nobel. 1982. A Fibonacci number sequence of rib development in a barrel cactus, *Ferocactus acanthodes*. Abstract, Ecological Society of America, annual national meeting, State College, Pennsylvania, USA.

Robberecht, R. and M.M. Caldwell. 1980. Mechanisms of higher plant acclimation to solar UV radiation. Abstract, Ecological Society of America, annual national meeting, Tucson, Arizona, USA.

Robberecht, R. and M.M. Caldwell. 1978. Leaf epidermal transmittance of ultraviolet radiation and its implication for plant sensitivity to ultraviolet-radiation injury. Abstract, Ecological Society of America, annual national meeting, Athens, Georgia, USA.

Caldwell, M.M., R. Robberecht, and W.D. Billings. 1978. A natural global solar ultraviolet radiation gradient: Irradiance and plant adaptation. Abstract, Ecological Society of America, annual national meeting, Athens, Georgia, USA.

RESEARCH GRANTS AND CONTRACTS

Forestry remote sensing extension to tribal colleges and land managers. 2009. NASA. With A.M.S. Smith and E. Strand. \$75,586.

Active learning environments for mastery-oriented learning: Integrating the virtual tutor in science education. 2008-2009. Idaho State Board of Education (SBOE). With A. Smith and E. Strand. \$53,600.

Application of Lecture Capture Technology (LCT) to Expand Degree Programs, Enhance Teaching and Learning and Transform Curricula. 2007-2008. Idaho State Board of Education (SBOE). With E.E. Krumpe, T. Link, J. Boll, P. Morgan, M. Dakins, C. Hoffman, and D. Schlater. \$80,000.

New dimensions in online education: Integrating synthetic speech for increased understanding and mastery. 2006-2007. Idaho State Board of Education (SBOE). With E.E. Krumpe. \$66,306.

Enhancing teaching & learning in large-enrollment classes with student response systems. 2006-2007. Idaho State Board of Education (SBOE). With Fins, Marshal, Krumpe, Gabel, Davico, Armpriest, and Schlater. \$72,047.

Designing an interactive nonlinear (e B)7(B)4(O)28ars>BDC q0.0000g8OOture CaptR. Ro 1 0 0 1 93.624 207.53 Tm0 g0 G[\$7

RESEARCH GRANTS AND CONTRACTS (continued)

North temperate ecosystem level responses to enhanced UV-B radiation. 2003 -2004. USDA grant (with J.H. Bassman and L.A. Shipley, Washington State University.) (\$72,000).

Interactive virtual reality models for science education: Conceptual models in ecology. 2002 -2003. University of Idaho Teaching/Learning Grant. (\$3,500).

A new learning environment: Expanding environmental science degree course offerings in Idaho. Idaho State Board of Education. Grant with M. von Braun (principal investigator) and 12 co-principal investigators. 1999-2002. \$311,407.

Effect of enhanced UV-B radiation on carbon dynamics in selected tree species. 1997. USDA Competitive Grants Program (with J. H. Bassman and G.E. Edwards, Washington State University, Pullman, Washington). 1997-1999 (\$141,000). Continued funding awarded after a grant proposal competition until 2000.

Regeneration of riparian forest in the Pacific Northwest. 1997-2000. USDA Forest Service, Pacific Northwest Research Station, Portland, OR. Grant with M. von Braun (principal investigator) and 12 co-principal investigators. 1997-2000. \$311,407.

RESEARCH GRANTS AND CONTRACTS (continued)

Physiological ecology of arctic tundra plants. 1989. The Norwegian Marshall Fund (\$5,000).

The effect of interspecific plant competition on the productivity of tree seedlings during the regeneration of forest stands. 1988. McIntire-Stennis Research Grants Program (\$68,941, three years).

Ecophysiology and mechanisms of plant interference for an adventive species in disturbed rangelands. 1987. USDA Cooperative State Research Service, Rangeland Research Grants Program (\$51,186, three years).

Arctophila feasibility study. 1986. Subcontract through