

CURRICULUM VITAE

University of Idaho

NAME: Schwarzländer, Mark

DATE: 23 March 2013

RANK OR TITLE: Associate Professor, Entomology and Biological Control of Weeds
Associate Professor for Environmental Sciences
Co-Director, Center for Research on Invasive Species and Small Populations (CRISSP)

DEPARTMENT: Plant, Soil, and Entomological Sciences

OFFICE LOCATION AND CAMPUS ZIP: Ag. Sci. Bldg. 237, 2339

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DATE OF FIRST EMPLOYMENT AT UI: October 1, 2000

DATE OF TENURE: July, 2007

DATE OF PRESENT RANK OR TITLE: July, 2007

EDUCATION BEYOND HIGH SCHOOL:

Degrees:

Ph.D. (Doktor der Naturwissenschaften, Dr. rer. nat.) Biology, Christian-Albrechts-University, Kiel, Germany, 1999, Major in Zoology and Ecology, Minor in Botany.

M.S. (Diplom Biologe) in Biology, Christian-Albrechts-University, Kiel, Germany, 1993, Major in Zoology, Minor in Botany.

EXPERIENCE:

Teaching, Extension and Research Appointments:

1997-2000, CABI Bioscience Centre Switzerland, Research Scientist: Manage project work on biological control of houndstongue (*Cynoglossum officinale*) and common reed (*Phragmites australis*); Develop collaborative studies comparing the ecology of the plants and candidate biocontrol agents in their native and introduced ranges; Administrate and service the information technology systems.

1993-97, International Institute of Biological Control, Switzerland: Ph.D. student investigating the impact of host-specific insect herbivory on plant and plant population traits of houndstongue, the biology and ecology of below-ground herbivores associated with houndstongue, and improvement of current host-range testing methodologies of candidate biocontrol agents.

1991-93, International Institute of Biological Control, Switzerland: M.S. (Diploma) student investigating the bionomics and ecology of three sympatric weevil species considered as candidate biocontrol agents for houndstongue.

1990 (September), International Institute of Biological Control, Switzerland: Research Assistant compiling data for a database on insect herbivores and their host plant records; Assisting with collections of biological control agents for shipment to North America.

1990 (April-August), Department of Ecology, Christian-Albrechts-University, Kiel, Germany: Teaching Assistant for a graduate level course in insect identification and taxonomy; Maintenance of the teaching collection for the department.

1989 (May-October), International Institute of Biological Control, Switzerland: Research Assistant assessing host range and evaluating biocontrol potential of weevil and leaf beetle species associated with *Cynoglossum officinale* and *Centaurea stoebi*, conducting life history studies with two biocontrol candidate species, a leaf-mining fly and a root gall-forming weevil.

1988 (April-July), Department of Ecology, Christian-Albrechts-University, Kiel, Germany: Research Assistant conducting studies on the ecology of *Platycampus luridiventris*, a saw fly species feeding on

common alder, studying its natural enemy complex, rearing parasitic ichneumonid and braconid wasps, and carrying out studies on its consumption efficacy.

TEACHING ACCOMPLISHMENTS:

Areas of Specialization:

Biologically based management of invasive exotic plant species using arthropods and pathogens. Plant invasion mechanisms and invasive plant ecology. Integrated management of invasive plant species combining classical biological control and inter-specific plant competition.

Courses Taught:

- ENT 499, Directed Study: “Special Techniques in Biological Control of Weeds – Rearing *Bradyrrhoa gilveolella* to Control Rush Skeletonweed”, 2 credits, 4 contact hours per week, Fall 2004.
- ENT 499, Directed Study: “Special Techniques in Biological Control of Weeds – Interspecific Competition by Native and Exotic Grasses on Hoary Cress Performance”, 2 credits, 4 contact hours per week, Fall 2004.
- ENVS 500, Masters Student Research and Thesis Training: Summer – Fall 2007, Spring 2008, Spring – Summer 2009, Fall 2010 - Spring 2012.
- ENT 500, Masters Student Research and Thesis Training: Fall 2001 – Spring 2006, Spring 2007 – Summer 2009, Fall 2010 – Spring 2012.
- ENT 501.01, Entomology Seminar: 1 credit, 1 contact hour per week, Spring 2005, Spring 2008, Fall 2012.
- ENT 501.02, Entomology Seminar: 1 credit, 1 contact hour per week, Spring 2005, Spring 2008, Fall 2012.
- ENT 502, Directed Study: “Environmental Safety of Weed Biocontrol Agents”, 1 credit, personal supervision of students, Fall 2001, Fall 2012.
- PLSc 502, Directed Study: “Topics in Biological Control of Weeds”, 1 credit, 1 contact hour per week, taught in collaboration with Dr. Tim Prather, Spring 2001.
- ENT 502, Directed Study, “Training Graduate Students for the 2000 ESA Great Debate on InvasiveSpecies,” 3 contact hours per week, taught together with Nilsa Bosque-Perez, Fall 2000.
- ENT 502, Directed Study: “Entomology Student Debate”, Fall 2012.
- ENT 502, Directed Study: “Technical Writing”, Fall 2012.
- ENT 504, Diversification of Entomological Knowledge, 1 credit, 1 contact hour, Fall 2012.
- ENVS 504, Biological Control, Taught in collaboration with Dr. James Johnson; 2 credits, 2 contact hours, Fall 2009.
- ENT 600, Ph.D. Student Research and Thesis Training: Fall 2002 – Spring 2006, Spring 2007 – Fall 2012.
- NO COURSE NUMBER; Reading and Discussion Club: Readings in Invasion Ecology, 1 contact hour per week, Spring 2007.

Students Advised:

Graduate Students Currently Advised - Major Professor:

Basu Caffe, **M.S.** (*started Spring 2013*)
 Jessica Rendon, **Ph.D.** (*started Fall 2011*)
 Joel Price, **M.S.** (*started Spring 2011*)
 Ikju Park, **Ph.D.** (*started Summer 2010*)
 Robert Gibson, **M.S.** (*started Summer 2009*)

Graduate Students Advised to Completion of Degree - Major Professor:

Marianna Szucs, **Ph.D.** (*graduated Fall 2010*)
 Lorena Brown, **M.S.** (*graduated Fall 2008*)
 Mark Cole, **M.S.** (*graduated Fall 2008*)
 Rachel Winston, **M.S.** (*graduated Spring 2007*)
 Ken Pulifiaco **Ph.D.** (*graduated Summer 2008*)
 Maria Alejandra Barahona Ferman **M.S.** (*graduated Spring 2006*)
 Joseph Milan, **M.S.** (*graduated Fall 2005*)
 Michael Cripps, **M.S.** (*graduated Spring 2005*)

Jessica McKenney, **M.S.** (*graduated Spring 2005*)

Jennifer Andreas, **M.S.** (*graduated Fall 2004*)

Graduate Students Committees:

1 **Ph.D.**, Plant Sciences, University of Idaho

1 **Ph.D.**, Entomology, University of Idaho

1 **M.S.**, Plant Sciences, University of Idaho

1 **Ph.D.**, Entomology, Cornell University

1 **M.S.**, Entomology, Washington State University

Undergraduate Advisees on Senior Research Projects with Postdoctoral Fellow Dr. Aaron Weed:

Jess Inskip

Awards: 2012 National Meeting of the Entomological Society of America, Knoxville, TN. President's Prize competition. 1st Place – Display Presentation Plant – Insect Ecosystems – Undergraduate; Pacific Branch - Entomological Society of America, Portland, OR. 1st Place – Display Presentation. Student Competition – Undergraduate; University of Idaho, 2012 Innovation Showcase. 2nd Place - Display Presentation. Student Competition – Undergraduate; Environmental Science Senior Seminar Class 2012. 3rd Place. Display Presentation.

Tessa Scott

Awards: Pacific Branch - Entomological Society of America, Portland, OR. 2nd Place – Display Presentation. Student Competition – Undergraduate; Environmental Science Senior Seminar Class 2012. 2nd Place. Display Presentation.

Theses Completed:

Szűcs, M. 2010. Landscape genetics, hybridization and rapid evolution in the biological control agent *Longitarsus jacobaeae*. Ph.D. Thesis. University of Idaho, Moscow, Idaho. 104 pp.

Brown, L.S. 2008. Genetic variation of the invasive *Linaria dalmatica* in its introduced range in Western North America and the impact of its predominant Biological Control Agent, *Mecinus janthinus*. Master's Thesis. University of Idaho, Moscow, Idaho. 89 pp.

Cole, M.E. 2008. Studies on the host-specificity of a potential biocontrol agent *Mogulones borraginis* (F.) and the bio-geographical variation of plant defense induction in the rangeland weed *Cynoglossum officinale* L. Master's thesis. University of Idaho, Moscow, Idaho. 94 pp.

Puliafico, K.P. 2008. Influence of insect herbivory, plant competition and plant defense on the invasion success of hoary cress (*Lepidium draba* L. (Brassicaceae)). Ph.D. Thesis. University of Idaho, Moscow, Idaho. 225 pp.

Winston, R.L. 2007. The Suite of Seed-Feeding Biological Control Insects for Yellow Starthistle: Champions or Merely Team Players? Master's Thesis. University of Idaho. Moscow, Idaho. 102 pp.

Barahona Ferman, M.A. 2006. Impact of the stem-mining weevil *Mecinus janthinus* on the invasive *Linaria dalmatica*. Master's Thesis. University of Idaho. Moscow, Idaho. 84 pp.

Cripps, M.G. 2005. Enemy release and the evolution of increased competitive ability as potential invasion mechanism of *Lepidium draba* L. in the western United States. Master's Thesis. University of Idaho. Moscow, Idaho. 94 pp. **H.C. Manis Award for Excellence in Entomological Research.**

McKenney, J.L. 2005. An inter-continental comparison of vigor and herbivory for the invasive plant *Lepidium draba*. Master's Thesis. University of Idaho. Moscow, Idaho. 62 pp.

Milan, J. 2005. Control efficacy of the biological control agents *Eriophyes chondrillae* and *Puccinia chondrillina* on rush skeletonweed, *Chondrilla juncea* L. Master's Thesis. University of Idaho. Moscow, Idaho. 97 pp.

Andreas, J.E. 2004. Non-target effects of *Mogulones cruciger* Herbst (Coleoptera: Curculionidae), a biocontrol agent released to control houndstongue in Canada. Master's Thesis. University of Idaho. Moscow, Idaho. 154 pp. **H.C. Manis Award for Excellence in Entomological Research.**

Materials Developed:**Websites:**

- <http://www.cals.uidaho.edu/epic/> Research laboratory website.
<http://www.cals.uidaho.edu/hawkweed/> Hawkweed biological control consortium website.
<http://www.cals.uidaho.edu/hoarycress/> Hoary cress biological control consortium website.
<http://web.cals.uidaho.edu/crissp/> Center for Research on Invasive Species and Small Populations website.

Books, Field Guides and Manuals:

- Andreas, J.E., Coombs, E.M., Piper, G.L., Milan, J.D. and Schwarzländer, M. 2002-2012 (updated annually). Biological Control. pp 5-13. In: 'Pacific Northwest 2012 Weed Management Handbook', Oregon State University Publishing, Corvallis, OR. <http://pnwpest.org/pnw/weeds>.
- Winston, R.L., Schwarzländer, M., Randall, C.B. and Reardon, R. 2011. Biology and Biological Control of Knapweeds. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2011-05 (2nd Ed.): 139 pages.
- Winston, R.L., Randall, C.B., Littlefield, J.L., Schwarzländer, M., Birdsall, J. and Coombs, E.M. 2011. Biology and Biological Control of Tansy Ragwort. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2011-02: 112 pages.
- Winston, R.L., Schwarzländer, M., Randall, C.B. and Reardon, R. 2010. Biology and Biological Control of Common St. Johnswort. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2010-05 (2nd Ed.): 96 pages.
- Winston, R.L. and Schwarzländer, M. 2010. Roadside Revegetation: Utilizing Native Species in the Western United States. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2010-04 (2nd Ed.): 117 pages.
- Winston, R.L. and Schwarzländer, M. 2009. New Invaders of the Northwestern United States. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2009-04: 117 pages.
- Winston, R.L., Schwarzländer, M., Gaskin, J.F. and Crabtree, C. (editors). 2009. Rush Skeletonweed (*Chondrilla juncea*) Management Plan for the Western United States. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2009-03: 117 pages.
- Winston, R.L., Hansen, R.W., Schwarzländer, M., Coombs, E.M., Randall, C.B. and Lym, R. 2007. Biology and Biological Control of Exotic True Thistles. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2007-05 (3rd Ed.): 147 pages.
- Bourchier, R., Hansen, R.W., Lym, R., Norton, A., Olson, D., Randal, C.B., Schwarzländer, M. and Skinner, L. 2005. Biology and Biological Control of Leafy Spurge. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2005-07 (2nd Ed.): 125 pages.
- Wilson, L.M., Schwarzländer, M., Blossey, B. and Bell Randall, C.B. 2004. Biology and Biological Control of Purple Loosestrife. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2004-12: 78 pages.

Laminated Pocket Field Guides:

- Schwarzländer, M., Winston, R.L. and Harmon, B.L. 2012. Noxious Weeds and their Biocontrol Agents: Knapweeds. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2011-08: 49 pages.

- Schwarzländer, M., Winston, R.L. and Harmon, B.L. 2012. Noxious Weeds and their Biocontrol Agents: Purple Loosestrife. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2012-06: 23 pages.
- Schwarzländer, M., Winston, R.L. and Harmon, B.L. 2012. Noxious Weeds and their Biocontrol Agents: Leafy Spurge. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2006-05: 41 pages.
- Schwarzländer, M., Winston, R.L. and Harmon, B.L. 2012. Noxious Weeds and their Biocontrol Agents: Rush Skeletonweed. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2012-06: 25 pages.
- Schwarzländer, M., Winston, R.L. and Harmon, B.L. 2012. Noxious Weeds and their Biocontrol Agents: Yellow Starthistle. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2012-06: 31 pages.
- Winston, R.L. and Schwarzländer, M. 2012. Noxious Weeds and their Biocontrol Agents: Thistles. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2007-11, Reprint 2011: 58 pages.
- Winston, R.L. and Schwarzländer, M. 2012. Noxious Weeds and their Biocontrol Agents: Bindweeds. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. 26 pages.
- Schwarzländer, M., Winston, R.L. and Harmon, B.L. 2011. Noxious Weeds and their Biocontrol Agents: Toadflax. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2011-08: 36 pages.
- Winston, R.L. and Schwarzländer, M. 2011. Noxious Weeds and their Biocontrol Agents: *Cirsium* thistles. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2007-01: 50 pages.
- Winston, R.L. and Schwarzländer, M. 2008. Noxious Weeds and their Biocontrol Agents: Broom and Gorse. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. 50 pages.
- Winston, R.L. and Schwarzländer, M. 2008. Noxious Weeds and their Biocontrol Agents: St. Johnswort. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. 26 pages.
- Winston, R.L., Szűcs, M. and Schwarzländer, Mark. 2008. Noxious Weeds and their Biocontrol Agents: Tansy Ragwort. USDA Forest Service Health Technology Enterprise Team (FHTET), Morgantown, WV, and University of Idaho Extension. FHTET-2006-05: 24 pages.

PowerPoint Course Presentations:

- Schwarzländer, M. 2006. Biological control of spotted and diffuse knapweed and their biocontrol agents. PowerPoint Presentation (89 slides)
- Schwarzländer, M. 2006. Biological control of rush skeletonweed and its biocontrol agents. PowerPoint Presentation (78 slides).
- Schwarzländer, M. 2006. Biological control of purple loosestrife and its biocontrol agents. PowerPoint Presentation (101 slides).
- Schwarzländer, M. 2006. Biological control of Dalmatian and yellow toadflax and their biocontrol agents. PowerPoint Presentation (104 slides).
- Schwarzländer, M. 2006. Biological control of yellow starthistle and its biocontrol agents. PowerPoint

Presentation (86 slides).

Schwarzländer, M. 2006. Biological control of thistles. PowerPoint Presentation (109 slides).

Symposia or Meetings Organized:

W-2185 USDA Regional Western Workgroup (Biological Control of Plant Pest Systems). 26 October 2010. Coeur d'Alene, ID. Organizer: Schwarzländer, M. (26 presentations, 35 participants).

2nd Conference of the Northern Rockies Invasive Plant Council (NRIPC). 26-29 October 2010. Coeur d'Alene, ID. Organizers: Schwarzländer, M., Haverhals, M.A. and Marler, M. (101 presentations, 158 participants).

1st Conference of the Northern Rockies Invasive Plant Council (NRIPC). Invasive Species in Natural Areas. 12-14 February 2008. Missoula, MT. Organizers: Schwarzländer, M., Haverhals, M.A. and Marler, M. (61 presentations, 231 participants).

Biocontrol Task Force Biannual Meetings. 10-11 December 2012, 16 May 2012, 14 November 2011, 11 May 2011, 1 December 2010, 3 May 2010, 22 October 2009, 17 October 2008 and 30 April 2008. All in Moscow, ID. Organizers: Schwarzländer, M. and Milan, J.D. (7-15 participants).

Rush Skeletonweed Summit. University of Idaho Water Center. February 21, 2007. Boise, ID. Organizers: Schwarzländer, M., Winston, R.L. and Ferriter, A. (12 presentations, 40 participants).

Annual Technical Advisory Group (TAG) Meeting. 9-11 September 2003. Spokane, WA. Organizers: Wilson, L., Schwarzländer, M. and Harmon, B.L. Two day meeting including scientific presentations and a one-day field tour. (29 presentations, 50 participants).

1st Hoary Cress Consortium Workshop. 12 September 2003. Spokane, WA. Organizers: Schwarzländer, M. and Hinz, H.L. The first workshop included presentations by researchers and graduate students on biological control and invasiveness of *L. draba* and a 2-hour discussion. (6 presentations, 25 participants).

W1185 - Brassicaceae Biocontrol Workshop. Western Region Biological Control Working Group. 1-2 October 2002. Boulder, CO. Organizers: Schwarzländer, M. and Hinz, H.L. Scientific presentations and panel discussion. (5 presentations, 25 participants).

Non-credit Classes, Workshops, Seminars, Invited Lectures, etc.:

Educational Youth Camp

Schwarzländer, M. 3-Day Biological Control Education and Training Youth Camp for Yellow Starthistle (*Centaurea solstitialis*). 1-3 August 2006. University of Idaho, Moscow, Nez Perce Bio-Control Center, Lapwai, and TNC Garden Creek Ranch, ID (9 Participants).

Schwarzländer, M. 3-Day Biological Control Education and Training Youth Camp for yellow starthistle (*Centaurea solstitialis*). 10-12 August 2005. University of Idaho, Moscow, and TNC Garden Creek Ranch, ID. (15 participants).

1-Day Technology Transfer Field Workshops for Tribal Nations

Schwarzländer, M. and Haverhals, M.A. Tribal Workshop: Weed Biological Control for the Crow Tribal Nation. 29 August 2012. Crow Agency, MT. (39 participants).

Schwarzländer, M. and Haverhals, M.A. Tribal Workshop: Weed Biological Control for the Moapa Paiute Tribal Nation. 30 August 2012. Moapa Paiute Travel Plaza, NV. (7 participants).

Schwarzländer, M. and Haverhals, M.A. Tribal Workshop: Weed Biological Control for the Kaibab-Paiute Tribal Nation. 1 August 2012. Fredonia, AZ. (8 participants).

Schwarzländer, M. and Haverhals, M.A. Tribal Workshop: Weed Biocontrol Implementation for Unitah and Ouray Tribal Bands. 19 August 2011. Ft. Duchesne, UT. (7 participants).

- Schwarzländer, M. and Haverhals, M.A. Tribal Workshop: Weed Biocontrol Implementation for West and Ely Shoshone Tribal Bands. 18 August 2011. Elko, NV. (11 participants).
- Schwarzländer, M. and Haverhals, M.A. Tribal Workshop: Weed Biocontrol Implementation for Paiute Tribal Bands. 17 August 2011. St. George, UT. (9 participants).
- Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 21 June 2010. Pine Ridge, SD. (12 participants).
- Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 21 June 2010. Rosebud, SD. (13 participants). Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 22 June 2010. Lower Brule, SD. (14 participants).
- Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 22 June 2010. Crow Creek, SD. (10 participants).
- Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 23 June 2010. Cheyenne River, SD. (9 participants).
- Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 24 June 2010. Standing Rock, ND. (15 participants).
- Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 25 June 2010. Sisseton, SD. (13 participants).
- Schwarzländer, M. and Haverhals, M.A. Biocontrol Monitoring Training. 26 June 2010. Yankton, SD. (11 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 15 June 2009. Pine Ridge, SD. (5 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 15 June 2009. Rosebud, SD. (5 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 16 June 2009. Yankton, SD. (4 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 16 June 2009. Flandreau, SD. (3 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 15 June 2009. Sisseton, SD. (3 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 16 June 2009. Standing Rock, SD. (5 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 17 June 2009. Cheyenne River, SD. (3 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 18 June 2009. Lower Brule, SD. (4 participants).
- Schwarzländer, M. and Harmon, B.L. Technology Transfer Workshop for Biocontrol Monitoring Training. 19 June 2009. Crow Creek, SD. (3 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 19 September 2009. Pine Ridge, SD. (5 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 20 September 2009. Rosebud, SD. (5 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 21 September 2009. Lower Brule, SD. (4 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 22 September 2009. Crow Creek, SD. (3 participants).

- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 23 September 2009. Standing Rock, SD. (5 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 24 September 2009. Cheyenne River, SD. (3 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 25 September 2009. Yankton, SD. (4 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 26 September 2009. Sisseton, SD. (3 participants).
- Schwarzländer, M. and Haverhals, M.A. Technology Transfer Workshop for Biocontrol Monitoring Training. 27 September 2009. Flandreau, SD. (4 participants).
- Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for leafy spurge (*Euphorbia esula*) and Saltcedar (*Tamarix* spp.). 3 June 2008. St. George, UT. (12 participants).
- Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for knapweeds (*Centaurea* and *Acrotylon* spp.) and Saltcedar (*Tamarix* spp.). 4 June 2008. Las Vegas, NV. (14 participants).
- Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for thistles (*Cirsium* and *Carduus* spp.) and Dalmatian Toadflax (*Linaria dalmatica*). 10 June 2008. Flagstaff, AZ. (30 participants).
- Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for thistles (*Cirsium* and *Carduus* spp.). 17 June 2008. Red Lake, MN. (8 participants).
- Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for thistles (*Cirsium* and *Carduus* spp.). 19 June 2008. Muskogee, OK. (16 participants).
- Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for thistles (*Cirsium* and *Carduus* spp.). 25 June 2008. Gardnerville, NV. (15 participants).
- Szücs, M. and Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for spotted knapweed (*Centaurea stoebe*). 26 July 2008. Coeur d'Alene, ID. (23 participants).
- Brown, L.S. and Schwarzländer, M. One-Day Biological Control Technology Transfer Workshop for spotted knapweed (*Centaurea stoebe*). 27 August 2008. St. Maries, ID. (14 participants).
- Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of leafy spurge (*Euphorbia esula*) on rangeland. 25 June 2007. North Central region: South Dakota. Mission, SD. (16 participants).
- Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of leafy spurge (*Euphorbia esula*) on rangeland. 26 June 2007. North Central region: South Dakota. Pine Ridge, SD. (8 participants).
- Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of Canada thistle (*Cirsium arvense*) on rangeland. 27 June 2007. North Central region: South Dakota. Eagle Butte, SD. (9 participants).
- Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of Saltcedar (*Tamarix* spp.) and Canada thistle (*Cirsium arvense*) on rangeland and in riparian areas. 28 June 2007. North Central region: South Dakota. Mobridge, SD. (22 participants).
- Szücs, M. and Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of spotted knapweed (*Centaurea stoebe*) on rangeland. 20 July 2007. Western region: Idaho. Coeur d'Alene, ID.
- Brown, L.S. and Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of spotted knapweed (*Centaurea stoebe*) on rangeland. 26 July 2007. Western region: Idaho. St. Maries, ID. (7 participants).
- Szücs, M. and Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of spotted knapweed (*Centaurea stoebe*) on rangeland. 23 August 2007. Western region: Idaho. Bonners

- Ferry, ID. (30 participants).
- Brown, L.S. and Schwarzländer, M. Technology Transfer Workshop: Biology and biological control of spotted knapweed (*Centaurea stoebe*) on rangeland. 29 August 2007. Western region: Idaho. Coeur d'Alene, ID. (20 participants).
- Schwarzlaender, M. and Allen, R. Purple Loosestrife Biocontrol Technology Transfer Workshop. 6 July 2006. Weiser, ID. (47 Participants).
- Schwarzlaender, M. and Allen, R. Leafy Spurge Biocontrol Technology Transfer Workshop. 10 July 2006. Aberdeen, ID. (16 Participants).
- Schwarzlaender, M. and Allen, R. Leafy Spurge Biocontrol Technology Transfer Workshop. 11 July 2006. Rexburg, ID. (33 Participants).
- Schwarzlaender, M. and Allen, R. Purple Loosestrife Biocontrol Technology Transfer Workshop. 18 July 2006. Nixon, NV. (21 Participants).
- Schwarzlaender, M. and Allen, R. Leafy Spurge Biological Control Technology Transfer Workshop. 20 July 2006. Elko, NV. (12 Participants).
- Schwarzlaender, M. and Allen, R. Biological Control Technology Transfer Workshops for Spotted Knapweed (*Centaurea stoebe*). 27 July 2006. Sandpoint, ID. (19 Participants).
- Schwarzlaender, M. and Allen, R. Biological Control Technology Transfer Workshops for Spotted Knapweed (*Centaurea stoebe*). 28 July 2006. Coeur d'Alene, ID. (20 Participants).
- Schwarzlaender, M. and Allen, R. Spotted Knapweed and Leafy Spurge Biological Control Technology Transfer Workshop. 8 August 2006. Fort Yates, ND. (11 Participants).
- Schwarzlaender, M. and Allen, R. Spotted Knapweed and Leafy Spurge Biological Control Technology Transfer Workshop. 9 August 2006. New Town, ND. (8 Participants).
- Schwarzlaender, M. and Allen, R. Spotted Knapweed and Leafy Spurge Biological Control Technology Transfer Workshop. 10 August 2006. Belcourt, ND. (12 Participants).
- Schwarzlaender, M. and Allen, R. Spotted Knapweed and Leafy Spurge Biological Control Technology Transfer Workshop. 11 August 2006. Fort Totten, ND. (9 Participants).
- Schwarzlaender, M. and Allen, R. Biological Control Technology Transfer Workshop for Spotted Knapweed (*Centaurea stoebe*). 15 August 2006. St. Maries, ID. (18 Participants).
- Schwarzlaender, M. and Allen, R. Biological Control Technology Transfer Workshops for Spotted Knapweed (*Centaurea stoebe*). 28 August 2006. Sandpoint, ID (15 Participants).
- Schwarzlaender, M. and Allen, R. Diffuse and Spotted Knapweed (*Centaurea diffusa* and *C. maculosa*). Biocontrol Technology Transfer Workshop. 29 August 2006. Coeur d'Alene, ID. (11 Participants).
- Schwarzländer, M. and Allen, R. Diffuse and spotted knapweed (*Centaurea stoebe*) Biocontrol Technology Transfer Workshop. 2 June 2005. Lapwai, ID. (18 participants).
- Schwarzländer, M. and Allen, R. Dalmatian toadflax (*Linaria dalmatica*) Biocontrol Technology Transfer Workshop. 9 June 2005. Hailey, ID. (11 participants).
- Schwarzländer, M. and Allen, R. Diffuse and spotted knapweed (*Centaurea diffusa* and *C. stoebe*) Biocontrol Technology Transfer Workshop. 11 June 2005. Coeur d'Alene, ID. (19 participants).
- Schwarzländer, M. and Allen, R. Diffuse and spotted knapweed (*Centaurea diffusa* and *C. stoebe*) Biocontrol Technology Transfer Workshop. 13 June 2005. Sandpoint, ID. (31 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for Dalmatian toadflax (*Linaria dalmatica*). 16 June 2005. Coeur d'Alene, ID. (26 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for spotted knapweed (*Centaurea stoebe*). 17 June 2005. Coeur d'Alene, ID. (29 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for spotted knapweed

- (*Centaurea stoebe*). 21 June 2005. Fort Hall, ID. (37 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for spotted knapweed (*Centaurea stoebe*). 22 June 2005. Mountain Home, ID. (26 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for spotted knapweed (*Centaurea stoebe*). 23 June 2005. Hailey, ID. (16 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for yellow starthistle (*Centaurea solstitialis*), Dalmatian toadflax (*Linaria dalmatica*), and spotted knapweed (*Centaurea stoebe*). 7 July 2005. Fraser Range, ID. (28 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for spotted knapweed (*Centaurea stoebe*) and yellow starthistle (*Centaurea solstitialis*). 7 July 2005. Burney, CA. (9 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for Russian knapweed (*Acroptilon repens*) and spotted knapweed (*Centaurea stoebe*). 12 July 2005. Farmington, NM. (18 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for spotted knapweed (*Centaurea maculosa*). 13 July 2005. Dulce, NM. (12 participants).
- Schwarzländer, M. and Allen, R. Diffuse and spotted knapweed (*Centaurea diffuse* and *C. stoebe*). Biocontrol Technology Transfer Workshop. 19 July 2005. Toppenish, WA. (47 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for Purple Loosestrife (*Lythrum salicaria*). 21 July 2005. Boise, ID. (18 participants).
- Schwarzländer, M. and Allen, R. Biological Control Technology Transfer Workshops for Purple Loosestrife (*Lythrum salicaria*). 22 July 2005. Twin Falls, ID. (15 participants).
- Schwarzländer, M. and Allen, R. One-Day Biological Control Technology Transfer Workshop for Purple Loosestrife (*Lythrum salicaria*). 1 August 2005. Wagner, SD. (6 participants).
- Schwarzländer, M. and Allen, R. One-Day Biological Control Technology Transfer Workshop for Canada thistle (*Cirsium arvense*) and Leafy Spurge (*Euphorbia esula*). 4 August 2005. Eagle Butte, SD. (16 participants).
- 1-Day Technology Transfer Field Workshops***
- Schwarzländer, M. Knapweed Technology Transfer Workshop. 14 June 2004. Coeur d'Alene, ID. (17 participants)
- Schwarzländer, M. Toadflax Technology Transfer Workshop. 15 June 2004. Coeur d'Alene, ID. (23 participants).
- Schwarzländer, M. Yellow Starthistle Technology Transfer Workshop. 30 June 2004. Whitebird, ID. (24 participants).
- Schwarzländer, M. Yellow Starthistle Technology Transfer Workshop. 1 July 2004. Lapwai, ID. (18 participants).
- Schwarzländer, M. Yellow Starthistle Technology Transfer Workshop. 2 July 2004. Lapwai, ID. (8 participants).
- Schwarzländer, M. Spotted Knapweed Technology Transfer Workshop. 9 July 2004. Lapwai, ID. (11 participants).
- Schwarzländer, M. Spotted Knapweed Technology Transfer Workshop. 20 July 2004. Shelley, ID. (29 participants).
- Schwarzländer, M. Spotted Knapweed Technology Transfer Workshop. 22 July 2004. Salmon, ID. (19 participants).
- Schwarzländer, M. Yellow Starthistle Technology Transfer Workshop. 28 July 2004. Toppenish, WA. (16 participants).

- Schwarzländer, M. Purple Loosestrife Technology Transfer Workshop. 3 August 2004. Santee, NE. (8 participants).
- Schwarzländer, M. Spotted Knapweed Technology Transfer Workshop. 9 August 2004. Lapwai, ID. (10 participants).
- Schwarzländer, M. Spotted Knapweed Technology Transfer Workshop. 11 August 2004. Sandpoint, ID. (13 participants).
- Schwarzländer, M. Spotted Knapweed Technology Transfer Workshop. 13 August 2004. Coeur d'Alene, ID. (13 participants).
- Schwarzländer, M. Workshop and field day – Biological control of spotted knapweed. UI Field Day Workshop. 19 June 2003. Coeur d'Alene, ID. (30 participants).
- Schwarzländer, M. Workshop and field day – Biological control of spotted knapweed. UI Field Day Workshop. 20 June 2003. Sandpoint, ID. (35 participants).
- Schwarzländer, M. Workshop and field day – Biological control of yellow toadflax. UI Field Day Workshop. 26 June 2003. Soda Springs, ID. (18 participants).
- Schwarzländer, M. Workshop and field day – Biological control of yellow starthistle. UI Field Day Workshop. 1 July 2003. Lapwai, ID. (6 participants)
- Schwarzländer, M. Workshop and field day – Biological control of yellow starthistle. UI Field Day Workshop. 18 July 2003. Lapwai, ID. (26 participants).
- Schwarzländer, M. Workshop and field day – Biological control of purple loosestrife. UI Field Day Workshop. 25 July 2003. Boise, ID. (38 participants).
- Schwarzländer, M. and Kuykendall, C. Workshop and field day - Biological control of spotted knapweed. UI and Nez Perce Biocontrol Center Workshop. 18 July 2002. Coeur d'Alene, ID.
- Schwarzländer, M. and Kuykendall, C. Workshop and field day - Biological control of purple loosestrife. UI and Nez Perce Biocontrol Center Workshop. 23 July 2002. New Plymouth, ID.
- Schwarzländer, M. and Kuykendall, C. Workshop and field day - Biological control of purple loosestrife. UI and Nez Perce Biocontrol Center Workshop. 24 July 2002. New Plymouth, ID.
- Schwarzländer, M. and Kuykendall, C. Workshop and field day - Biological control of diffuse knapweed. UI and Nez Perce Biocontrol Center Workshop. 25 July 2002. Twin Falls, ID.

Other Extension Seminars and Presentations

- Schwarzländer, M. and Hinz, H.L. Foreign exploration research for biological control. Annual Conference of the Montana Weed Control Association. 10 January 2012. Great Falls, MT. (60 participants).
- Haverhals, M.A. and Schwarzländer, S. Free biocontrol resources. Annual Conference of the Montana Weed Control Association. 11 January 2012. Great Falls, MT. (50 participants).
- Schwarzländer, M. and Randall, C.B. Biological control 101 workshop. Annual Conference of the Montana Weed Control Association. 10 January 2012. Great Falls, MT. 90 minutes. 30 participants.
- Haverhals, M.A., Schwarzländer, M. and Harmon, B.L. Free biocontrol resources. 65th Annual Meeting of the Society for Range Management. 29 January – 3 February 2012. Information booth. (130 participants).
- Milan, J.D. and Schwarzländer, M. Weed biocontrol agent and target quiz. Annual Idaho Weed Conference. 02 February, 2012. Boise, ID. (75 participants).
- Schwarzländer, M. and Haverhals, M.A. Biological control of noxious weeds on tribal lands. BIA National Tribal Natural Resource Meeting. 9 February 2012. Phoenix, AZ. (25 participants).
- Schwarzländer, M. Biological control research update. Clearwater Basin Noxious Weed Clinic. 29 February 2012. Orofino, ID. (55 participants).

- Schwarzländer, M. Biological control research update. Clearwater Basin Noxious Weed Clinic. 1 March 2012. Lewiston, ID. (70 participants).
- Schwarzländer, M. and Haverhals, M.A. Biological control of weeds: EDDMapS – biocontrol. Annual Conference of the Missouri Watershed Coalition. 13 June 2012. Sturgis, SD. (25 participants).
- Schwarzländer, M. International outlook. Oregon Interagency Noxious Weed Symposium. 6 December 2012. Corvallis, OR.
- Schwarzländer, M. Weed biocontrol implementation and outreach on USFS lands. USDA Forest Service FHP Headquarter. 25 January 2011. Washington, DC. (5 participants).
- Schwarzländer, M. National standards for biological weed impact monitoring. FICMNEW. 26 January 2011. Washington, DC. (16 participants).
- Schwarzländer, M. Biological control of noxious weeds on tribal lands. BIA National Tribal Range Resource Meeting. 3 February 2011. Phoenix, AZ. (32 participants).
- Schwarzländer, M. Weed biocontrol agent and target quiz. Idaho Weed Conference. 2 March 2011. Boise, ID. (59 participants).
- Schwarzländer, M., Haverhals, M.A. and Randall, C.B. National biocontrol release records & EDD-MapS. Meeting with US Forest Service, USFS, UI, UofG and MIA. 21-23 June 2011. Moscow, ID. (12 participants).
- Schwarzländer, M. Biocontrol consortia and research update. Idaho Weed Summit. Boise, ID. (35 participants).
- Schwarzländer and Hinz, H.L. Biological control of houndstongue. Wyoming Weed and Pest Conference. 9 November 2011. Gillette, WY. (30 participants).
- Schwarzländer, M. Weed biocontrol consortia. Western Weed Coordinating Committee - Annual Meeting. 1 December 2011. Las Vegas, NV. (25 participants).
- Schwarzländer, M. Biocontrol agent quiz. Idaho Weed Conference. 3 February 2010. Burley, ID (64 participants).
- Schwarzländer, M. Idaho Biocontrol Task Force Meeting. 04 February 2010. Burley, ID (14 participants).
- Schwarzländer, M. Biological control of Noxious Weeds. Great Plains and Rocky Mountain Regions BIA and Tribal Conference. 28 April 2010. Rapid City, SD. (109 participants).
- Schwarzländer, M. Idaho's standardized impact monitoring protocol – SIMP. Washington County Legislative Tour. 17 May 2010. Weiser, ID (51 participants).
- Schwarzländer, M. and Gibson, R. Dyer's woad research in Idaho. National USDA FS Evaluation Meeting. 13 July 2010. Preston, ID (34 participants).
- Schwarzländer, M. and Weed, A.S. *Mecinus janthinus* monitoring and SIMP. National USDA FS Evaluation Meeting. 13 July 2010. Preston, ID (32 participants).
- Weed, A.S. and Schwarzländer, M. Spatial patterns of attack by the stem-mining weevil, *Mecinus janthinus*, on Dalmatian toadflax in the northwestern U.S. Invasive Weed Ecology and Biocontrol Consortia Meeting: Dalmatian toadflax (*Linaria dalmatica*) and yellow toadflax (*L. vulgaris*) – 2nd Invasive Species in Natural Areas Conference. 26 October 2010. Coeur d'Alene, ID (65 participants).
- Schwarzländer, M. Differential resistance of the invasive skeletonweed biotypes to accessions of the skeletonweed rust. Invasive Weed Ecology & Biocontrol Consortia Meeting: Rush skeletonweed (*Chondrilla juncea*) – 2nd Invasive Species in Natural Areas Conference. 26 October 2010. Coeur d'Alene, ID (27 participants).
- Harmon, B.L. and Schwarzländer, M. Releasing the skeletonweed root moth *Bradysrrhoa gilveolella*. Invasive Weed Ecology & Biocontrol Consortia Meeting: Rush skeletonweed (*Chondrilla juncea*) – 2nd Invasive Species in Natural Areas Conference. 26 October 2010. Coeur d'Alene, ID. (27 participants).

- Rapo, C., Eigenbrode, S.D., Gaskin, J.F., Hinz, H.L., Schwarzalender, M. and Schaffner, U. New tools to predict the host range of potential biocontrol agents of hoary cress. Invasive Weed Ecology & Biocontrol Consortia Meeting: Hoary cress (*Lepidium draba*), perennial pepperweed (*L. latifolium*) and dyer's woad (*Isatis tinctoria*) – 2nd Invasive Species in Natural Areas Conference. 26 October 2010. Coeur d'Alene, ID (29 participants).
- Schwarzländer, M. Biocontrol monitoring for Dalmatian toadflax. Wyoming Weed and Pest Conference, Cheyenne, WY” Wyoming Weed and Pest Conference, 18 November 2010. Cheyenne, WY. (64 participants).
- Schwarzländer, M. Hope for houndstongue biological control? Wyoming Weed and Pest Conference. 18 November 2010. Cheyenne, WY. (26 participants).
- Schwarzländer, M. What is hot in weed biocontrol and what is not. South Dakota Weed and Pest Supervisor Training. 18 February 2009. Rapid City, SD. (130 participants).
- Schwarzländer, M. Biocontrol impact evaluation made easy – a monitoring program for everyone. South Dakota Weed and Pest Supervisor Training. 19 February 2009. Rapid City, SD. (60 participants).
- Schwarzländer, M. Impact monitoring for invasive toadflaxes. Wyoming Weed and Pest Conference, 10 November 2009, Cheyenne, WY. (28 participants).
- Schwarzländer, M. Biological control of houndstongue. Wyoming Weed and Pest Conference, 18 November 2009, Cheyenne, WY. (57 participants).
- Schwarzländer, M. Potential for biological control of houndstongue. Montana Weed Control Association, 16 January 2008. Great Falls, MT. (95 participants).
- Schwarzländer, M. Biogocial control of noxious weeds. Great Plains and Rocky Mountains Natural Resource Conference. 10 April 2008. Rapid City, SD (49 participants).
- Schwarzlaender, M. Biocontrol of perennial mustards. Oregon Interagency Noxious Weed Symposium. 3 December 2008. Corvallis, OR. (114 participants).
- Schwarzländer, M. Biological control of houndstongue. Wyoming Weed and Pest Conference. 4 November 2008. Riverton, WY. (45 participants).
- Schwarzländer, M. Hawkweed consoritum update. Wyoming Weed and Pest Conference. 4 November 2008. Riverton, WY. (15 participants).
- Schwarzländer, M. Biological control of rush skeletonweed. Rush Skeletonweed Summit. University of Idaho Water Center. 21 February 2007. Boise, ID. (39 participants).
- Schwarzländer, M. Efficient biological control agents to control selected weeds in Idaho. CWMA Weed Warrior Training Workshop. 12 June, 2007. Idaho Falls, ID. (70 participants).
- Schwarzländer, M. and Hinz, H.L. Basics in biological control agent development, collection and redistribution. CWMA Weed Warrior Training Workshop. 12 June 2007. Idaho Falls, ID. (48 participants).
- Schwarzländer, M. Biological control principles and the potential for biological control of Eurasian watermilfoil. Aquatic Plant Control Seminar - Ask the Experts! 23 August, 2007. Sandpoint, ID. (40 participants).
- Schwarzländer, M. Potential for biological control of houndstongue. Wyoming Weed and Pest Conference. 8 November 2007. Jackson, WY.
- Schwarzländer, M. How can we more effectively manage rush skeletonweed? Joseph Plain Weed Management Area. 23 January 2006. Grangeville, ID. (21 participants).
- Winston, R.L. and Schwarzländer, M. Biological Control research on yellow starthistle. Joseph Plain Weed Management Area, 23 January 2006. Grangeville, ID. (21 participants).
- Schwarzländer, M. Biological control of weeds implementation in South Dakota. South Dakota State Weed Conference. 11-12 February 2006. Rapid City, SD. (120 participants).

- Schwarzländer, M. Tansy ragwort biocontrol. Palouse CWMA Meeting. 9 March 2006. Potlatch, ID. (13 participants).
- Schwarzländer, M. Tansy ragwort biocontrol. Palouse CWMA Meeting. 11 May 2006. Potlatch, ID. (10 participants).
- Schwarzländer, M. Tansy ragwort biocontrol. Palouse CWMA Meeting. 7 June 2006. Potlatch, ID. (8 participants).
- Schwarzländer, M. Great Plains Region Annual BIA Tribal Trustee Meeting. 23-24 October 2006. (23 participants).
- Schwarzländer, M. Biocontrol of Dalmatian toadflax, yellow starthistle in the Hells Canyon Ecosystem. Tri-State Weed Demonstration Area Meeting. 10 November 2006. Lewiston, ID. (19 participants).
- Schwarzländer, M. Research on the biological control of mustard weeds (perennial pepperweed, hoary cress, and dyer's woad). Oregon Interagency Noxious Weed Symposium. 5 December 2006. Corvallis, OR. (105 participants).
- Schwarzländer, M. Biological control of weeds Technology Transfer Workshops. National BIA Resource Manager Meeting. 1 February 2005. Phoenix, AZ. (19 participants).
- Schwarzländer, M. Weed biocontrol. Inland Empire Cooperative Weed Management Area. 10 April 2004. Coeur d'Alene, ID. (39 participants).
- Schwarzländer, M. Weed biocontrol. Inland Empire Cooperative Weed Management Area. 9 March 2004. Coeur d'Alene, ID. (78 participants).
- Schwarzländer, M. Biological Control of Weeds Technology Transfer Workshops – Experiences in the West. Eastern Regional BIA Office Trust Resources Workshop. 24-26 August 2004. Nashville, TN. (48 participants).
- Schwarzländer, M. Biological control of noxious weeds. 25th Annual Intermountain Container Seedling Grower's Association Meeting. 19 October 2004. Lewiston, ID. (45 participants).
- Schwarzländer, M. Biological weed control workshops – the University of Idaho/Nez Perce Bio-Control Center partnership. 2004 Great Plains Region Annual BIA Tribal Trustee Meeting. 27-28 October 2004. Aberdeen, SD. (42 participants).
- Schwarzländer, M. Biological control of weeds hoary cress and dyers woad. Cooperative Idaho Utah Weed Management Area. 22 January 2003. Pocatello, ID. (55 participants).
- Schwarzländer, M. Biological control of weeds: 1) Principles & methods, 2) New projects. BLM Pesticide Training. 27 January 2003. Boise, ID. (61 participants).
- Schwarzländer, M. Steps in the development of new biocontrol agents for weeds and optimal release techniques. Idaho Weed Conference UI Pre-conference Weed School. 6 February 2003. Nampa, ID. (145 participants).
- Schwarzländer, M. Biological control of houndstongue – Program update. Wyoming Weed and Pest Supervisor Spring Meeting. 1 April 2003. Jackson, WY. (45 participants).
- Schwarzländer, M. 30 months of hoary cress consortium – What has been accomplished. Wyoming Weed and Pest Supervisor Meeting. 1 April 2003. Jackson, WY. (55 participants).
- Schwarzländer, M. 12 facts about biological control of weeds in 60 minutes. University of Idaho Cooperative Extension System. 3 May 2003. Sandpoint, ID. (95 participants).
- Schwarzländer, M. Hoary cress research and consortium update. Wyoming Weed and Pest Supervisor Fall Meeting. 27 October 2003. Cody, WY. (45 participants).
- Schwarzländer, M. Biological control of rangeland weeds with insects in Northern Idaho. University of Idaho Cooperative Extension System. 13 March 2002. Bonners Ferry, ID.
- Schwarzländer, M. Biological control of rangeland weeds with insects in Northern Idaho. University of Idaho Cooperative Extension System. 13 March 2002. Sandpoint, ID.

- Schwarzländer, M. Biological control of rangeland weeds with insects in Northern Idaho. University of Idaho Cooperative Extension System. 14 March 2002. Coeur d'Alene, ID.
- Schwarzländer, M. Biological control of rangeland weeds with insects in Northern Idaho. University of Idaho Cooperative Extension System. 14 March 2002. Plummer, ID.
- Schwarzländer, M. Biological control of weed principles using crucifer weeds and houndstongue as example. South East Idaho Weed Control Association. 14 November 2002. Idaho Falls, ID. (115 participants).
- Schwarzländer, M. Biological control of weeds. Plant Protection Seminar. 13 November 2001. Twin Falls, ID.
- Schwarzländer, M. and Prather, T.S. Supporting the CWMA process. Weed Biocontrol Program Introduction. CWMA Cost Share Meeting. 17 October 2000. Coeur d'Alene, ID.
- Schwarzländer, M. and Prather, T.S. Supporting the CWMA process. Weed Biocontrol Program Introduction. CWMA Cost Share Meeting. 18 October 2000. Lewiston, ID.
- Schwarzländer, M. and Prather, T.S. Supporting the CWMA Process. Weed Biocontrol Program Introduction. CWMA Cost Share Meeting. 19 October 2000. Boise, ID.
- Schwarzländer, M. Biological control of weeds. Plant Protection Seminar. 14 November 2000. Idaho Falls, ID.
- Schwarzländer, M. New insects for weed biocontrol in Idaho. Eastern Idaho Weed Control Association Annual Meeting. 15 November 2000. Idaho Falls, ID.
- Schwarzländer, M. New insect biocontrol agents for biological control of weeds in Idaho. Eastern Idaho Weed Control Association Annual Meeting. 15 November 2000. Idaho Falls, ID.

SCHOLARSHIP ACCOMPLISHMENTS:

Publications:

Refereed or Adjudicated (# Denotes Graduate Student):

- Gaskin, J.F., **Schwarzländer, M.**, Kinter, C.L., Smith, J.F. and Novak, S.J. Propagule pressure, population structure and geographic origins of an apomictic plant invasion on three invaded continents; a comparison of introduction dynamics around the globe. American Journal of Botany. *Accepted*.
- Hinz, H.L., **Schwarzländer, M.**, Gassmann, A. and Bouchier, R.S. Successes we would not have had: a retrospective comparison of predicted versus realized host range of weed biological control agents in North America. Invasive Plant Science and Management. *Accepted*.
- Gaskin, J.F., **Schwarzländer, M.**, Hinz, H.L., Williams, L. III, Gerber, E., Rector, B.G. and Zhang, D.Y. Genetic identity and diversity of perennial pepperweed (*Lepidium latifolium*) in its native and invaded ranges. Invasive Plant Science and Management. *In Press*.
- Goulet, E.J., Thaler, J., Ditommaso, A., **Schwarzländer, M.** and Shields, E.J. 2013 Impact of *Mecinus janthinus* (Coleoptera: Curculionidae) on the growth and reproduction of *Linaria dalmatica* (Scrophulariaceae). The Great Lakes Entomologist 46(1-2): 90-98.
- Gaskin, J.F., **Schwarzländer, M.**, Williams, L. III, Gerber, E. and Hinz, H.L. 2012. Minimal genetic diversity in the facultatively outcrossing perennial pepperweed (*Lepidium latifolium*) invasion. Biological Invasions 14:1797-1807.
- Hinz, H.L., **Schwarzländer, M.**, #McKenney, J.L., #Cripps, M.G., Harmon, B.L. and Price, W.J. 2012. Biogeographical comparison of *Lepidium draba* between its native, expanded and introduced range. Biological Invasions 14:1999-2016.
- #Szűcs, M., Eigenbrode, S.D., **Schwarzländer, M.** and Schaffner, U. 2012. Hybrid vigor in the biological

- control agent, *Longitarsus jacobaeae*. Evolutionary Applications 5(8): 489-497.
- #Szűcs, M., Urs Schaffner, Price, W.J. and **Schwarzländer, M.** 2012. Post-introduction evolution in the biological control agent *Longitarsus jacobaeae* (Coleoptera: Chrysomelidae). Evolutionary Applications 5(8): 858-868.
- #Puliafico, K.P., **Schwarzländer, M.**, Price, W.J., Harmon, B.L. and Hinz, H.L. 2011. Native and Exotic Grass Competition with Invasive Hoary Cress (*Lepidium draba*). Invasive Plant Science and Management 4(1): 858-868.
- #Szűcs, M., **Schwarzländer, M.** and Gaskin, J.F. 2011. Reevaluating establishment and potential hybridization of different biotypes of the biological control agent *Longitarsus jacobaeae* using molecular tools. Biological Control 58:44-52.
- Van Driesche, R.G, Carruthers, R., Center, T., R., Hoddle, M., Hough-Goldstein, J., Morin, L., Smith, L., Blossey, B., Brancatini, V., Casagrande, R, Causton, C., Coetzee, J. A., Cuda, J., Ding, J., Fowler, S., Frank, H., Fuester, Goolsby, J., Grodowitz, M., Heard, T. A., Hill, M. P., Hoffmann, J., Huber, J., Julien, M., Kario, M., Kenis, M., Medal, J., Messing, R., Miller, R., Moore, A., Neuenschwander, P., Newman, R., Norambuena, H., Palmer, W., Pemberton, R., Perez Panduro, A., Pratt, P., Ramini, S., Rayamajhi, M., Salom, S., Sands, D., Schooler, S., Sheppard, A., Shaw, R., **Schwarzländer, M.**, Tipping, P., van Klinken, R. and Wagner, D. 2010. Classical Biological Control for the Protection of Native Ecosystems. Biological Control 54:S2-S33.
- #Cripps, M.G., Hinz, H.L., #McKenney, J.L., Price, W.J. and **Schwarzländer, M.** 2009. No evidence for an 'evolution of increased competitive ability' for the invasive *Lepidium draba*. Basic and Applied Ecology 10: 103-112.
- Newcombe, G., Shipunov, A., Eigenbrode, S.D., Raghavendra, A.K.H., Ding, H., Anderson, C.L., Menjivar, R., Crawford, R. and **Schwarzländer, M.** 2009. Endophytes influence protection and growth of an invasive plant. Communicative and Integrative Biology 2(1): 249-251.
- #Andreas, J.E., DeClerck-Floate, R.A. and **Schwarzländer, M.** 2008. The occurrence and potential relevance of post-release nontarget attack by *Mogulones cruciger*, a biocontrol agent for *Cynoglossum officinale* in Canada. Biological Control 46(3): 309-311.
- Eigenbrode, S.D., #Andreas, J.E., #Cripps, M.C., Ding, H., Biggam, R.C. and **Schwarzländer, M.** 2008. Induced chemical defenses in invasive plants: a case study with *Cynoglossum officinale* L. Biological Invasions 10: 1373-1379.
- Lau, J.A., #Puliafico, K.P., Kopshever, J.A., Steltzer, H., Jarvis, E.P., **Schwarzländer, M.**, Strauss, S.Y. and Hufbauer, R.A. 2008. Effects of activated carbon on plant growth complicate the inference of allelopathic effects. New Phytologist 178(2): 412-423.
- #Puliafico, K.P., **Schwarzländer, M.**, Harmon, B.L. and Hinz, H.L. 2008. Effect of generalist insect herbivores on *Lepidium draba* (Brassicaceae) implications for the enemy release hypothesis. Journal of Applied Entomology 132(7): 519-529.
- #Cripps, M.G., Hinz, H.L., #McKenney, J.L., Harmon, B.L., Merickel, F.W. and **Schwarzländer, M.** 2006. Comparative survey of the phytophagous arthropod faunas associated with *Lepidium draba* in Europe and the western United States, and the potential for biological weed control. Biocontrol Science and Technology 16(10): 1007-1030.
- #Cripps, M.G., #McKenney, J.L., Hinz, H.L., Price, W.J. and **Schwarzländer, M.** 2006. Biogeographic comparison of the arthropod herbivore communities associated with *Lepidium draba* in its native, expanded and introduced ranges. Journal of Biogeography 33(12): 2107-2119.
- #Häfliger, P., **Schwarzländer, M.** and Blossey, B. 2006. Impact of *Archanara geminipuncta* (Lepidoptera: Noctuidae) on above-ground biomass production of *Phragmites australis*. Biological Control 38(3): 413-421.
- #Häfliger, P., **Schwarzländer, M.** and Blossey, B. 2006. A Comparison of Biology and Host Plant Utilization of *Archanara geminipuncta*, *A. dissoluta*, *A. neurica* and *Arenostola phragmitidis* (Lepidoptera: Noctuidae), Potential Biological Control Agents of *Phragmites australis* (Arundineae:

- Poaceae). Annals of the Entomological Society of America 99(4): 683 – 696.
- Kuhlmann, U., Mason, P.G., Hinz, H.L., Blossey, B., De Clerck-Floate, R.A., Dosdal, L.M., McCaffrey, J.P., **Schwarzländer, M.**, Olfert, O., Brodeur, J., Gassmann, A., McClay, A.S. and Wiedenmann, R.N. 2006. Avoiding conflicts between insect and weed biological control: selection of non-target species to assess host specificity of cabbage seedpod weevil parasitoids. Journal of Applied Entomology 130(3): 129-141.
- #Milan, J.D., Harmon, B.L., Prather, T.S. and **Schwarzländer, M.** 2006. Winter mortality of *Aceria chondrillae*, a biological control agent released to control rush skeletonweed (*Chondrilla juncea*) in the western United States. Journal of Applied Entomology 130(9-10): 473-479.
- #Häfliger, P., **Schwarzländer, M.** and Blossey, B. 2005. Biology of *Platycephala planifrons* and its potential effectiveness as biological control agent for invasive *Phragmites australis* in North America. Biological Control 34(3): 302-311.
- Hinz, H.L. and **Schwarzländer, M.** 2004. Comparing invasive plants in their native and exotic range: What can we learn for biological control? Weed Technology 18(Suppl.): 1533-1541.
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Other Publications:

- Schwarzländer, M., De Clerck-Floate, R., Hinz, H.L. and Winston R.L. 2013. A petition for the introduction, experimental release and open-field release of the seed-feeding weevil *Mogulones borraginis* (Coleoptera: Curculionidae) for the biological control of houndstongue (*Cynoglossum officinale*) in North America. 79 pages.
- Schwarzländer, M., Hinz, H.L. and Winston, R.L. 2011. A petition for the introduction, experimental release and open-field release of the root-mining weevil *Ceutorhynchus cardariae* (Coleoptera: Curculionidae) for the biological control of hoary cress (*Lepidium draba* and *L. appelianum*) in North America. 98 pages.

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- 16, 2011. Waikoloa Beach, HI.
- Gibson, R., Hinz, H.L. and Schwarzländer, M. Comparing the population biology of *Isatis tinctoria* in its native Eurasian and introduced N. American range under different experimental treatments. 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Hinz, H.L., Gassmann, A., Bouchier, R. and Schwarzländer, M. Successes we might never have had: a retrospective comparison of predicted versus realized host range of established weed biological control agents in North America. 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Milan, J.D., Weed, A.S., Schwarzländer, M., Brusven, P., and Randall, C.B. Is a regional interagency, multi-year, multi-system post-release impact assessment program possible? 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Park, I., Schwarzländer, M. and Eigenbrode, S.D. The use of chemical ecology to improve pre-release and post-release host range assessments for potential and released biological control agents of *Cynoglossum officinale*. 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Rapo, C., Eigenbrode, S.D., Hinz, H.L., Gaskin, J.F., Price, W.J., Schaffner, U. and Schwarzländer, M. Metabolic profiling: a new tool in the prediction of host-specificity in biological control of weeds. 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Schwarzländer, M., Winston, R.L. and Weed, A.S. Spatial monitoring of the dispersal target and non-target impact of the unintentionally introduced biological control agent *Mogulones cruciger* in the northwestern USA. 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Szűcs, M., Schaffner, U. and Schwarzländer, M. Post-Introduction Evolution in the biological control agent *Longitarsus jacobaeae*. 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Weed, A.S. and Schwarzländer, M. Local spatial structure of Dalmatian toadflax (*Linaria dalmatica*) and its effect on attack by the stem-mining weevil *Mecinus janthinus* in the northwestern U.S. 13th International Symposium on Biological Control of Weeds. September 11 – 16, 2011. Waikoloa Beach, HI.
- Rapo, C., Eigenbrode, S.D., Gaskin, J.F., Hinz, H.L., Schwarzländer, M. and Schaffner, U. New tools to predict the host range of potential biocontrol agents of hoary cress. International Conference on Biocontrol for Nature 2010. 7 October 2010. Morgantown, WV.
- Schwarzländer, M. Classical biological weed control in North America: Successes and post-release monitoring. 100 Years CABI Centennial Celebration Symposium. 8 December 2010. Delémont, Switzerland.
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- Hinz, H.L. and Schwarzländer, M. Comparing invasive plants in their native and exotic range: what can we learn for biocontrol? Annual Meeting of the British Ecological Society. 7-9 September 2004. Lancaster, UK.
- Cripps, M.G., Schwarzländer, M., McKenney, J.L. and Hinz, H.L. Niche occupation on *Lepidium draba* L. in its native and introduced ranges. Annual Meeting of the Entomological Society of Canada. 15-19 October 2004. Charlottetown, Prince Edward Island.
- Hinz, H.L. and Schwarzländer, M. What can we learn for biological control from transatlantic comparisons of invasive plant species ecology? 7th International Conference on the Ecology and Management of Alien Plant Invasions. 3-7 November 2003. Ft. Lauderdale, FL.
- Schwarzländer, M. Initiation of a consortium for the biological control of hoary cress (HCC). II International Knapweed Symposium. 16–17 March 2001. Coeur d'Alene, ID.
- Andreas, J.E. and Schwarzländer, M. Complementary studies on the host-specificity of *Longitarsus quadriguttatus* Pont., a below-ground herbivore for the biological control of the rangeland weed *Cynoglossum officinale* L. Joined Annual Meeting of the Entomological Societies of America and Canada. 8-12 December 2000. Montréal, Quebec, Canada.

National:

- Inskeep, J., Weed, A.S., Schwarzländer, M., Harmon, B.L. and Scott, T. Explaining spatio-temporal patterns of impact to Dalmatian toadflax by the stem-mining weevil *Mecinus janthiniformis*: Effects of host quality and attack intensity on weevil population growth. The 60th Annual Meeting of the Entomological Society of America. November 11-14, 2012, Knoxville, TN. **First Place – Poster Presentation Plant – Insect Ecosystems – Undergraduate Students.**
- Park, I., Schwarzländer, M. and Eigenbrode, S.D. Assessing the importance of flowers and their scents in the host selection of the seed-feeding weevil (*Mogulones borraginis*). The 60th Annual Meeting of the Entomological Society of America. November 11-14, 2012, Knoxville, TN.
- Park, I., Schwarzländer, M. and Eigenbrode, S.D. New tools to improve pre-release host range prediction of *Mogulones borraginis*, a biocontrol agent for houndstongue. The 60th Annual Meeting of the Entomological Society of America. November 11-14, 2012, Knoxville, TN. *Oral Presentation.*
- Price, J., Schwarzländer, M. and Harmon, B.L. Post-release assessment of the efficacy of *Urophora cardui* and *Hadroplontus litura*, biological control agents of Canada thistle. The 60th Annual Meeting of the Entomological Society of America. November 11-14, 2012, Knoxville, TN. *Display Presentation.*
- Rapo, C., Hinz, H.L., Eigenbrode, S.D., Gaskin, J.F., Schaffner, U., Price, W.J. and Schwarzländer, M. Metabolic profiling: a new tool in the prediction of host specificity in classical biological control of weeds? The 59th Annual Meeting Entomological Society of America November 13-16, 2011, Reno, NV.
- Rendon, J., Schwarzländer, M. and Eigenbrode, S.D. The role of chemical, visual, and tactile cues in the host selection behavior of *Ceutorhynchus cardariae*, a potential biological control agent for *Lepidium draba*. The 60th Annual Meeting of the Entomological Society of America. November 11-14, 2012, Knoxville, TN. *Display Presentation.*
- Scott, T., Weed, A.S., Schwarzländer, M., Harmon, B.L. and Inskeep, J. Interactive effects of (*Mecinus janthiniformis*) herbivory and varying soil resource conditions on the performance of Dalmatian

- toadflax, (*Linaria dalmatica*). The 60th Annual Meeting of the Entomological Society of America. November 11-14, 2012, Knoxville, TN.
- Hinz, H.L., Gassmann, A., Bouchier, R. and Schwarzländer, M. Successes we might never have had: a retrospective comparison of predicted versus realized host range of established weed biological control agents in North America. 38th Natural Areas Conference. 1-4 Nov. 2011 in Tallahassee, FL.
- Park, I., Schwarzländer, M. and Eigenbrode, S.D. Assessing olfactory and visual cues in host selection behavior to improve pre-release host range prediction of *Mogulones borraginis* (Coleoptera: Curculionidae) for houndstongue, *Cynoglossum officinale* (Boraginaceae). The 59th Annual Meeting Entomological Society of America. November 13-16, 2011, Reno, Nevada.
- Szücs, M., Schaffner, U. and Schwarzländer, M. Post-introduction life-history evolution in the weed biological control agent *Longitarsus jacobaeae*. The 59th Annual Meeting Entomological Society of America. November 13-16, 2011, Reno, Nevada.
- Weed, A.S. and Schwarzländer, M. Spatial dynamics of Dalmatian toadflax (*Linaria dalmatica*) and attack by the stem-mining weevil *Mecinus janthinus*. The 59th Annual Meeting Entomological Society of America. November 13-16, 2011, Reno, Nevada.
- Schwarzländer, M. Direct and indirect non-target effects in biological weed control programs in North America. 35th Natural Areas Conference. 14-17 October 2008. Nashville, TN.
- Schwarzländer, M. Biological control of Weeds Technology Transfer Workshops and collaborative tribal research projects. USDI BIA National Range Resource Manager Council Meeting. 29-31 January 2007. Phoenix, AZ .
- Schwarzländer, M. Basic principles of biological weed control - Track 1. 1st National Tribal Invasive Species Conference. 6-9 November 2006. Reno, NV.
- Schwarzländer, M. Biological weed control agents for target weeds - Track 2. 1st National Tribal Invasive Species Conference. 6-9 November 2006. Reno, NV.
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- Schwarzländer, M. Monitoring and evaluation of biological weed control programs - Track 4. 1st National Tribal Invasive Species Conference. 6-9 November 2006. Reno, NV.
- Barahona Ferman, M.A. and Schwarzländer, M. Impact of the stem-mining weevil *Mecinus janthinus* on Dalmatian toadflax populations in Idaho. Annual Meeting of the Entomological Society of America. 6-9 November 2005. Ft. Lauderdale, FL. *Display Presentation. 1st Prize in Section, President's Prize.*
- Puliafico, K.P., Harmon, B.L., Hinz, H.L. and Schwarzländer, M. Impact of North American insect herbivores on the invasive plant *Lepidium draba*. Annual Meeting of the Entomological Society of America. 6-9 November 2005. Ft. Lauderdale, FL. *Display Presentation. 1st Prize in Section, President's Prize.*
- Andreas, J.E. and Schwarzländer, M. Seven years after its release in Canada: Is it safe to introduce the houndstongue root weevil, *Mogulones cruciger*, in the United States? Annual Meeting of the Entomological Society of America. 14-17 November 2004. Salt Lake City, UT.
- Cripps, M.G., McKenney, J.L., Hinz, H.L. and Schwarzländer, M. Comparative analysis of the insect community structure on *Lepidium draba* in its indigenous range and introduced ranges. Annual Meeting of the Entomological Society of America. 14-17 November 2004. Salt Lake City, UT. *Display Presentation. 1st Prize in Section, President's Prize.*
- Eigenbrode, S.D., Andreas, J.E., Ding, H. and Schwarzländer, M. Comparison of pyrrolizidine alkaloid induction in European and North American populations of houndstongue. Annual Meeting of the Entomological Society of America. 14-17 November 2004. Salt Lake City, UT.
- Hinz, H.L. and Schwarzländer, M. Challenges and prospects for the biological control of invasive Brassicaceae in North America. Annual Meeting of the Entomological Society of America. 14-17

November 2004. Salt Lake City, UT.

McKenney, J.L., Cripps, M.G., Hinz, H.L. and Schwarzländer, M. Endophagous herbivory and growth of the invasive mustard *Lepidium draba* in its native Eurasian range and introduced North American range. Annual Meeting of the Entomological Society of America. 14-17 November 2004. Salt Lake City, UT.

Schwarzländer, M., McKenney, J.L., Cripps, M.G., Puliafico, K.P. and Hinz, H.L. Vigor and competitiveness of native and invasive hoary cress populations with regard to the evolution of increased competitive ability. Annual Meeting of the Entomological Society of America. 14-17 November 2004. Salt Lake City, UT.

Schwarzländer, M. The environmental safety of the houndstongue root weevil. Annual Meeting of the Technical Advisory Group TAG. 9-11 September 2003. Spokane, WA.

Schwarzländer, M. Environmental safety and pre-release host-specificity assessment of *Mogulones cruciger* Hbst., a below-ground herbivore for the biological control of houndstongue. Annual Meeting of the Entomological Society of America, Fort Lauderdale, FL. 17-21 November 2002.

Schwarzländer, M. and Wilson, L.M. Biological control of invasive plant species programs. Weed Science Society of America. 1st Invasive Plant Species Workshop. 13-14 February 2002. Reno, NV.

Andreas, J.E., Schwarzländer, M. and Hinz, H.L. Choice and no-choice open-field tests to assess the host-specificity of *Longitarsus quadriguttatus* Pont., a below-ground herbivore for the biological control of the rangeland weed houndstongue. Annual Meeting of the Entomological Society of America. 9-12 December 2001. San Diego, CA.

Schwarzländer, M., Andreas, J.E., DeClerck-Floate, R.A. and Hinz, H.L. Host-specificity of *Mogulones borraginis*, a seed-feeding weevil for the biological control of houndstongue. Annual Meeting of the Entomological Society of America. 9-12 December 2001. San Diego, CA.

Schwarzländer, M. Effect of below-ground herbivory on the reproductive timing in the monocarpic short-lived perennial *Cynoglossum officinale*. Annual Meeting of the Entomological Society of America. 9-12 December 2001. San Diego, CA.

Regional:

Inskip, J., Weed, A.S., Schwarzländer, M., Harmon, B.L. and Scott, T. Influence of varying soil nutrient conditions on the population dynamics of *Mecinus janthiniformis*, a stem-mining weevil of Dalmatian toadflax (*Linaria dalmatica*). Pacific Branch Meeting, Entomological Society of America. March 25-28, 2012. Portland, OR. **First Place – Poster Presentation – Undergraduate Students.**

Park, I., Schwarzländer, M. and Eigenbrode, S.D. Assessing olfactory and visual cues involved in the host selection behavior of the potential biological control agent *Mogulones borraginis* to improve pre-release host range predictions. Pacific Branch Meeting, Entomological Society of America. March 25-28, 2012, Portland, OR.

Price, J., Schwarzländer, M. and Harmon, B.L. Post-release assessment of the efficacy of *Urophora cardui* and *Hadroplontus litura*, biological control agents of Canada thistle. Pacific Branch Meeting, Entomological Society of America. March 25-28, 2012, Portland, OR.

Schwarzländer, M. and Weed, A.S. A standardized impact monitoring protocol (SIMP) for the assessment of weed biological control efficacy. Pacific Branch Meeting, Entomological Society of America. March 25-28, 2012, Portland, OR.

Scott, T., Weed, A.S., Schwarzländer, M., Harmon, B.L. and Inskip, J. Interactive effects of (*Mecinus janthiniformis*) herbivory and varying soil resource conditions on the performance of Dalmatian toadflax, (*Linaria dalmatica*). Pacific Branch Meeting, Entomological Society of America. March 25-28, 2012, Portland, OR. **Second Place – Poster Presentation – Undergraduate Students.**

Park, I., Schwarzländer, M., Eigenbrode, S.D. Chemical Ecology Approaches for the Host Range Assessment of *Mogulones borraginis*, a Biocontrol Agent for Houndstongue. 2011 Pacific Branch Meeting, Entomological Society of America. Waikoloa Village. 28 March 2011. Big Island, HI.

- Rapo, C., Eigenbrode, D., Hinz, H.L., Gaskin, J.F., Price, W.J., Schaffner, U. and Schwarzländer, M. Metabolic profiling: A new tool in the predication of host-specificity in classical biological control of weeds. 2011 Pacific Branch Meeting, Entomological Society of America. Waikoloa Village. 28 March 2011. Big Island, HI.
- Weed, A.S. and Schwarzländer, M. Evaluating statewide impact of weed biological control using the Standardized Impact Monitoring Protocol (SIMP). 2011 Pacific Branch Meeting, Entomological Society of America. Waikoloa Village. 28 March 2011. Big Island, HI.
- Gibson, R. and Schwarzländer, M. Dyer's woad demography study in southeastern Idaho. 2nd Conference of the Northern Rockies Invasive Plant Council (NRIPC). 26 October 2010. Coeur d'Alene, ID.
- Hinz, H.L., Gassmann, A. and Schwarzländer, M. Predicted versus realized host range of biological weed control agents. 2nd Conference of the Northern Rockies Invasive Plant Council (NRIPC). 26 October 2010. Coeur d'Alene, ID.
- Park, I. and Schwarzländer, M. New tools for the host range assessment of *Mogulones borraginis*, a biocontrol agent for houndstongue. 2nd Conference of the Northern Rockies Invasive Plant Council (NRIPC). 26 October 2010. Coeur d'Alene, ID.
- Szűcs, M., Schwarzländer, M. and Gaskin, J.F. Establishment patterns and hybridization of different biotypes of the biological control agent *Longitarsus jacobaeae*. 2nd Conference of the Northern Rockies Invasive Plant Council (NRIPC). 26 October 2010. Coeur d'Alene, ID.
- Weed, A.S. and Schwarzländer, M. Evaluating statewide biocontrol using the Standardized Impact Monitoring Protocol (SIMP): A case study for Dalmatian toadflax. 2nd Conference of the Northern Rockies Invasive Plant Council (NRIPC). 26 October 2010. Coeur d'Alene, ID.
- Schwarzländer, M. and Hinz, H.L. Natural Enemy Diversity does not necessarily enhance weed biological control efficacy. 92nd Annual Meeting of the Pacific Branch of the Entomological Society of America. 30 March – 2 April 2008. Napa, CA.
- Schwarzländer, M. and Winston, R.L. Are seed-feeding insects adequately controlling yellow starthistle, *Centaurea solstitialis*, in the Western U.S.? 92nd Annual Meeting of the Pacific Branch of the Entomological Society of America. 30 March – 2 April 2008. Napa, CA.
- Winston, R.L. and Schwarzländer, M. Biological control as a management tool for plant communities infested with yellow starthistle. 92nd Annual Meeting of the Pacific Branch of the Entomological Society of America. 30 March – 2 April 2008. Napa, CA.
- Schwarzländer, M. The genotypes of rush skeletonweed in the Pacific Northwest and implications for biological control. Oregon Vegetation Management Society Annual Meeting. 16 November 2007. Seaside, OR.
- Schwarzländer, M., Winston, R.L. and Cole, M. Competitive interactions and Impact of biological control agents on yellow starthistle in Idaho. Western Society of Weed Science Annual Meeting. 14-16 March 2006. Reno, NV.
- Szűcs, M., Anderson, C.L. and Schwarzländer, M. Landscape genetics and climatic associations of flea beetle lineages, and implications for biocontrol of tansy ragwort. Entomological Society of America - Pacific Branch Meeting. 6-8 March 2006. Maui, HI. **2nd Prize Pacific Branch Annual Meeting, Graduate Student Competition.**
- Winston, R.L. and Schwarzländer, M. The efficacy of biological control against yellow starthistle in the hell's canyon ecosystem. Entomological Society of America - Pacific Branch Meeting. 6-8 March 2006. Maui, HI.
- Andreas, J.E. and Schwarzländer, M. Environmental safety of a weed biological control agent of houndstongue in regard to endangered Boraginaceae species. Pacific Branch Entomological Society of America Annual Meeting. 20-23 June 2004. Bozeman, MT. **1st Prize Pacific Branch Annual Meeting, Graduate Student Competition.**
- Cripps, M.G., McKenney, J.L., Hinz, H.L. and Schwarzländer, M. Comparative analysis of the insect community structure on *Lepidium draba* in its indigenous and introduced ranges. Pacific Branch

- Entomological Society of America Annual Meeting. 20-23 June 2004. Bozeman, MT.
- McKenney, J.L., Cripps, M.G., Hinz, H.L. and Schwarzländer, M. Increased growth vigor of the mustard *Lepidium draba* L. Provides support for the enemy release hypothesis. Pacific Branch Entomological Society of America Annual Meeting. 20-23 June 2004. Bozeman, MT.
- Schwarzländer, M. The potential for biological control of *Phragmites australis* in North America. Western Aquatic Plant Management Society. Annual Meeting. 26-27 March 2002. Coeur d'Alene, ID.
- Schwarzländer, M., Hinz, H.L., McKenney, J.L., and Cripps, M.G. Pre-release investigations on the ecology and herbivory pressure of *Cardaria draba*. 'Biological Control in Plant Pest Management Systems'. W1185 Western region Biological Control Working Group. Annual Meeting. 1-2 October 2002. Boulder, CO.
- Schwarzländer, M. 'Biological control in plant pest management systems' W185 Western Region Biological Control Working Group. Annual Meeting. 9-12 October 2001. Lake Tahoe, CA.
- Schwarzländer, M. Influence and synergistic effects of above and below-ground herbivory by two host-specific weevils and plant competition on the performance of houndstongue. 85th Annual Meeting of the Entomological Society of America Pacific Branch. 24-27 July 2001. Park City, UT.
- State:**
- Schwarzländer, M. Research update: 10 years of biological control research in Idaho. Idaho Weed Conference. 31 January 2013. Boise, ID. (95 participants).
- Schwarzländer, M. and Milan, J.D. New biological control agents in the pipeline. Idaho Weed Conference. 02 February 2012. Boise, ID. (80 participants).
- Schwarzländer, M. Update on research for new biocontrol agents. Idaho Weed Conference. 3 March 2011. Boise, ID. (89 participants).
- Weed, A.S. and Schwarzländer, M. Evaluation of performance using long-term monitoring. Idaho Weed Conference. 3 March 2011. Boise, ID. (75 participants).
- Schwarzländer, M. Where are we with new bugs for whitetop, dyers woad, and houndstongue? 9th Idaho Weed Conference. 18 February 2009. Nampa ID. (83 participants).
- Schwarzländer, M. and Haverhals, M.A. The complexity of rush skeletonweed and invasive hawkweeds – What it means for biocontrol? 9th Idaho Weed Conference. 18 February 2009. Nampa, ID. (79 participants)
- Schwarzländer, M. Update on research efforts for the biological control of rush skeletonweed and houndstongue. 8th Idaho Weed Conference. 31 January 2008. Nampa, ID. (68 participants).
- Schwarzländer, M. Update on research efforts for the biological control of invasive mustards. 8th Idaho Weed Conference. 31 January 2008. Nampa, ID. (71 participants).
- Brown, L.S. and Schwarzländer, M. Biological control of Dalmatian toadflax with the stem-mining weevil *Mecinus janthinus*. 7th Idaho Weed Conference. 1 February 2007. Nampa, ID. (72 participants).
- Schwarzländer, M. and Parsons, L.K. Differences of Rush Skeletonweed Forms in the Pacific Northwest and how they affect Biocontrol Efforts. 7th Idaho Weed Conference. 1 February 2007. Nampa, ID. (54 participants).
- Hinz, H.L. and Schwarzländer, M. Biological control of hoary cress, perennial pepperweed, and Dyers woad, 6th Idaho Weed Conference. 1-2 February 2006. Nampa, ID. (62 participants).
- Schwarzländer, M. Biocontrol works – Sometimes! 6th Idaho Weed Conference. 1-2 February 2006. Nampa, ID. (56 participants).
- Winston, R.L. and Schwarzländer, M. Yellow starthistle biocontrol research, 6th Idaho Weed Conference. 1-2 February 2006. Nampa, ID. (86 participants).
- Milan, J.D. and Schwarzländer, M. Impact of the rush skeletonweed mite and the rush skeletonweed rust in

- southern Idaho. Idaho Weed Control Association. 5th Idaho Weed Conference. 1-3 February 2005. Nampa, ID.
- Schwarzländer, M. Biological control of weeds - Research in Idaho – Update. Idaho Weed Control Association. 1-3 February 2005. 5th Idaho Weed Conference, Nampa, ID. (52 participants).
- Schwarzländer, M. Implementation of Biological Control for Rangeland Weeds in Idaho. 5th Idaho Weed Conference. 1-3 February 2005. Nampa, ID. (187 participants).
- Schwarzländer, M. Nursery establishment, distribution and monitoring of important biological control agents for knapweeds, purple loosestrife and toadflaxes. 4th Idaho Weed Conference. 4-5 February 2004. Nampa, ID. (69 participants).
- Schwarzländer, M. Biological control of weeds - Research in Idaho – Update. Idaho Weed Control Association. 4th Idaho Weed Conference. 5-7 February 2004. Nampa, ID. (72 participants).
- Schwarzländer, M. Biological control of weeds - Research in Idaho – Update. Idaho Weed Control Association. 3rd Idaho Weed Conference. 5-7 February 2003. Nampa, ID. (50 participants).
- Schwarzländer, M. New University of Idaho biological control research results. Idaho Weed Conference. 7 February 2003. Nampa, ID. (55 participants).
- Schwarzländer, M. Biological control of weeds - Research in Idaho. Idaho Weed Control Association. 2nd Idaho Weed Conference. 6-8 February 2002. Nampa, ID. (62 participants).
- Schwarzländer, M. New biological control agents for the management of weeds in Idaho. Idaho Weed Control Association. 1st Idaho Weed Conference. 5-7 February 2001. Nampa, ID. (48 participants).

Grants and Contracts Awarded - Development (D), Application and Implementation (A&I), Extension (E)
 (§ Denotes Competitive Grant)

2012 Grants and Contracts Awarded (Sole Spending Authority: \$374,000)

- §Schwarzländer, M., Park, I and Eigenbrode, S.E. \$115,000. Using *Mogulones borraginis*, a potential biocontrol agent for houndstongue and *Ceutorhynchus cardariae*, a potential biocontrol agent for hoary cress, to develop host-specificity testing methods based on olfactory and visual host selection behavior. National Competitive Grant: Technology Development for the Biological Control of Invasive Native and Non-Native Plants (BCIP). USDA Forest Service Forest Health Protection Forest Health Technology Enterprise Team (FHTET). 04/20/12-04/19/15. (D)
- Schwarzländer, M. \$19,000. Developing biological control for houndstongue using the houndstongue seed weevil. Service Agreement. Wyoming Weed and Pest Districts. 05/01/12-04/30/13. (D)
- Schwarzländer, M. \$28,000. Development of biological control educational materials: revision of Julien's Catalogue, USDA FS Eastern Region, FHTET 04/20/10-04/19/15. (A&I)
- Schwarzländer, M. \$7,500. Digitization and availability of proceedings of the International Symposium on Biological Control of Weeds. USDA Forest Service SPF FHP through University of Georgia. Cooperative Agreement. 03/01/12-02/28/13. (E)
- Schwarzländer, M. \$38,000. Developing biological control for hoary cress, perennial pepperweed and dyers woad – CESU. USDI BLM Oregon. 06/21/08-06/20/13. (A&I)
- Schwarzländer, M. \$110,000. Biological control agent evaluation and development – CESU agreement. USDI BLM Idaho. 09/01/12-08/31/17. (A&I)
- Schwarzländer, M.. \$8,500. Biological control of hawkweeds – Cooperative Agreement. USDI BLM Regional Rocky Mountain Office. 03/01/12-03/28/13. (E)
- Schwarzländer, M. \$10,000. Biological control of Canada thistle – Cooperative Agreement. USDI BIA Great Plains Regional Office. 06/01/12-09/30/13. (E)
- Schwarzländer, M. \$38,000. Risk assessment and monitoring of target and nontarget plant utilization by the houndstongue root weevil *Mogulones crucifer* Pallas (Coleoptera, Curculionidae) in northern

Washington and Idaho – Cooperative Agreement. USDI APHIS PPQ CPHST. 09/17/12-09/16/13.
(A&I)

2011 Grants and Contracts Awarded (Sole Spending Authority: \$288,200)

- Schwarzländer, M. \$19,000. Developing biological control for houndstongue using the houndstongue seed weevil. Service Agreement. Wyoming Weed and Pest Districts. 01/01/11-12/31/11. (D)
- Schwarzländer, M. \$75,200. Development of Biological Control Educational Materials: revision of Julien's Catalogue, USDA FS Eastern Region, FHTET 03/16/11-03/31/13. (A&I/E)
- Schwarzländer, M. \$7,500. Development of an online data entry portal for biological weed control information – pilot project. University of Georgia/USDA SPF FHP Cooperative Agreement. 08/01/11-07/31/12. (A&I)
- Schwarzländer, M. \$58,000. Developing biological control for hoary cress, perennial pepperweed and dyers woad – Service Agreement. USDI BLM Oregon/Washington. 03/11/11-06/20/13. (A&I)
- Schwarzländer, M. \$10,000. Biological control of hawkweeds – Cooperative Agreement. USDI BLM Regional Rocky Mountain Office. 08/01/11-07/31/14. (E)
- Schwarzländer, M. \$50,000. Biological control development and outreach – Cooperative Agreement. USDI BIA Rocky Mountain Regional Office. 06/01/11-12/31/12. (A&I)
- Schwarzländer, M. \$30,000. Biological control tribal outreach – Cooperative Agreement. USDI BIA Rocky Mountain Regional Office. 06/01/11-12/31/12. (E)
- Schwarzländer, M. \$38,500. Risk assessment and monitoring of target and nontarget plant utilization by the houndstongue root weevil *Mogulones cruciger* Hbst. (Coleoptera, Curculionidae) in northern Washington and Idaho – Cooperative Agreement. USDI APHIS PPQ CPHST. 07/01/11-06/30/12. (A&I)

2010 Grants and Contracts Awarded (Sole Spending Authority: \$277,000)

- Schwarzländer, M. \$19,000. Developing biological control for houndstongue using the houndstongue seed weevil. Service Agreement. Wyoming Weed and Pest Districts. 01/01/10-12/31/10. (D)
- Schwarzländer, M. \$25,000. Development of biological control educational materials: revision of Julien's Catalogue, USDA FS Eastern Region, FHTET 01/01/10-03/31/13. (E)
- Schwarzländer, M. \$15,000. Development of an online data entry portal for biological weed control information – Pilot Project. USDA SPF FHP Cooperative Agreement. 08/01/09-07/31/10. (A&I)
- Schwarzländer, M. \$20,000. Developing biological control for hoary cress, perennial pepperweed and dyers woad – Service Agreement. USDI BLM Oregon/Washington. 02/17/10-06/20/13. (A&I)
- Schwarzländer, M. \$10,000. Biological control of hawkweeds – Cooperative Agreement. USDI BLM Regional Rocky Mountain Office. 08/01/10-07/31/14. (E)
- Schwarzländer, M. \$26,250. Biological control of Canada thistle – Cooperative Agreement. USDI BIA Great Plains Regional Office. 06/01/10-06/30/12. (E)
- Schwarzländer, M. \$31,250. Biological control development and outreach – Cooperative Agreement. USDI BIA Rocky Mountain Regional Office. 06/01/10-12/31/12. (A&I)
- Schwarzländer, M. \$38,500. Risk assessment and monitoring of target and nontarget plant utilization by the houndstongue root weevil *Mogulones cruciger* Hbst. (Coleoptera, Curculionidae) in northern Washington and Idaho – Cooperative Agreement. USDI APHIS PPQ CPHST. 07/01/10-06/30/10. (A&I)
- ^sSchwarzländer, M. \$92,000. Development of the biological control impact analysis system (BIAS) for invasive plants. USDA FS Competitive Special Technology Development Program. USDAI FS STDP. 04/01/10-03/31/12. (A&I)

2009 Grants and Contracts Awarded (Sole Spending Authority: \$730,500)

- Schwarzländer, M. \$15,000. Developing biological control for houndstongue using the houndstongue seed weevil. Service Agreement. Wyoming Weed and Pest Districts. 01/01/09-12/31/09. **(D)**
- Schwarzländer, M. \$7,000. Biological control of tansy ragwort. Service Contract Clearwater CWMA. 07/01/09-06/30/10. **(A&I)**
- Schwarzländer, M. \$41,000. Development of Biological Control Educational Materials: revision of Julien's Catalogue, Easter Region, FHTET. 01/01/10-12/31/10. **(E)**
- Schwarzländer, M. \$96,000. Reassessing the feasibility of an area-wide biological control program for Canada thistle using *Urophora cardui* and *Ceutorhynchus litura*. USDA SPF FHP Grant Competition. 04/01/09-02/31/12. **(A&I)**
- Schwarzländer, M. \$5,000. Development of an online data entry portal for biological weed control information – Pilot Project. USDA SPF FHP Cooperative Agreement. 08/01/09-07/31/10. **(A&I)**
- Schwarzländer, M. \$45,000. Developing biological control for hoary cress, perennial pepperweed and dyers woad – Service Agreement. USDI BLM Oregon/Washington. 05/31/09-06/01/10. **(A&I)**
- Schwarzländer, M. \$5,000. Biological control of rush skeletonweed – cost share challenge Agreement. USDI BLM Idaho. 01/01/09-12/31/09. **(A&I)**
- Schwarzländer, M. \$10,000. Biological control of hawkweeds - Cooperative Agreement. USDI BLM Regional Rocky Mountain Office. 08/01/09-07/31/14. **(E)**
- Schwarzländer, M. \$5,000. Biological control of Canada thistle – Cooperative Agreement. USDI BIA Great Plains Regional Office. 01/01/09-12/31/09. **(E)**
- Schwarzländer, M. \$12,000. Biological control of Canada thistle in South Dakota – Cooperative Agreement. USDI APHIS PPQ. 06/01/09-05/31/10. **(A&I)**
- Schwarzländer, M. \$7,500. Biological control of invasive hawkweeds – Cooperative Agreement. USDI APHIS PPQ. 06/01/09-05/31/10. **(E)**
- Schwarzalender, M. \$10,000. Biological control technology transfer workshops. Cooperative Agreement. USDI BIA Rocky Mountain Regional Office. 01/01/09-12/31/10. **(E)**
- Schwarzländer, M. \$300,000. Development of biological control project. USDI BLM Idaho. Special Grant Competition under ARRA. 09/01/09-08/31/11. **(A&I)**
- Schwarzländer, M. \$172,000. Development of new weed biological control agents. Special Technology Agreement (with Panhandle Lakes RC&D). USDI BLM Idaho. 11/01/09-10/31/10. **(A&I, this grant is not a University of Idaho but a Panhandle Lakes RC&D account)**

2008 Grants and Contracts Awarded (Sole Spending Authority: \$183,000)

- Schwarzländer, M. \$19,000. Developing biological control for houndstongue using the houndstongue seed weevil. Service Agreement. Wyoming Weed and Pest Districts. 01/01/08-12/31/08. **(D)**
- Schwarzländer, M. \$10,000. Biological control of tansy ragwort. Service Contract Clearwater CWMA. 07/01/08-06/30/09. **(A&I)**
- Schwarzländer, M. \$31,000. Development of additional field guide card decks for noxious weeds and their biological control agents; development of a St. John's wort biological control manual. U.S. Forest Service; Eastern Region, FHTET. 12/01/08-05/23/10. **(E)**
- [§]Schwarzländer, M. \$93,000. Development of guidelines to assist managers with implementation of biological control of rush skeletonweed using the skeletonweed root moth. USDA FS National Special Technology Development (STDP) Grant Competition. 04/01/08-03/31/11. **(A&I)**
- Schwarzländer, M. \$25,000. Developing biological control for hoary cress, perennial pepperweed and dyers woad – Service Agreement. USDI BLM Oregon/Washington. 05/31/08-06/01/09. **(A&I)**

Schwarzländer, M. \$5,000. Biological control of rush skeletonweed – Cost Share Challenge Agreement. USDI BLM Idaho. 01/01/08-12/31/08. **(A&I)**

2007 Grants and Contracts Awarded (Sole Spending Authority: \$310,080)

Schwarzländer, M. \$81,490. Evaluation of hoary cress habitats and indigenous insect herbivory and support of foreign exploration for biological control. Idaho State Dept. of Agriculture. 03/16/07-03/15/08. **(D)**

Schwarzländer, M. \$15,990. Developing biological control for houndstongue. Idaho State Department of Agriculture. 03/16/07-03/15/08. **(D)**

Schwarzländer, M. \$14,200. Developing biological control for houndstongue using the houndstongue seed weevil. Service Agreement. Wyoming Weed and Pest Districts. 01/01/07-12/31/07. **(D)**

Schwarzländer, M. \$20,000. Biological control of hoary cress and perennial pepperweed – Memorandum of Agreement. USDI BIA. 04/01/07-03/31/08. **(A&I)**

Schwarzländer, M. \$20,000. Biological control of Canada thistle on tribal lands in the Dakotas – Memorandum of Agreement. USDA APHIS PPQ. 08/01/07-07/31/08. **(A&I)**

Prather, T. and Schwarzländer, M. (\$25,000 spending authority). Yellow Starthistle and Perennial Pepperweed Research and Integrated Management in Idaho. USDA CSREES Special Cooperative Agreement 5325-220000-017-085 08/01/07-07/31/08. **(A&I)**

Schwarzländer, M. \$5,800. Technology transfer field days for tribal and BIA land managers. Memorandum of Agreement, Bureau of Indian Affairs. 01/01/05-12/31/07. **(E)**

Schwarzländer, M. \$10,000. Biological control of tansy ragwort. Service Contract Clearwater CWMA. 07/01/07-06/30/08. **(A&I)**

Schwarzländer, M. \$49,900. Development of additional field guide card decks for noxious weeds and their biological control agents; development of a rush skeletonweed comprehensive management plan; development of a St. John's wort biological control manual. U.S. Forest Service, Eastern Region, FHTET. 12/01/07-12/31/09. **(E)**

Schwarzländer, M. \$28,700. Biological control of rush skeletonweed and implementation of the rush skeletonweed moth in Idaho - Service Agreement. RSWTF/ISDA. 03/16/07-03/15/08. **(A&I)**

Schwarzländer, M. \$10,000. Biological control of yellow starthistle in Hells Canyon – Memorandum of Agreement. USDI BLM Cottonwood District Office. 08/01/07-07/31/08. **(A&I)**

Schwarzländer, M. \$29,000. Biological control of rush skeletonweed – Cost Share Challenge Agreement. USDI BLM. 01/01/07-12/31/08. **(A&I)**

2006 Grants and Contracts Awarded (Sole Spending Authority: \$359,053)

[§]Brusven, P. and Schwarzländer, M. (\$36,750 spending authority). An operational demonstration project for the integrated management of rush skeletonweed (*Chondrilla juncea*) in Idaho and adjacent states. USDA NRCS GLCI. 09/01/06-12/31/07. **(A&I)**

Schwarzländer, M. \$79,603. Evaluation of hoary cress habitats and indigenous insect herbivory, and support of foreign exploration for biological control. Idaho State Dept. of Agriculture. 01/01/06-12/31/06. **(D)**

Schwarzländer, M. \$15,200. Implementation of biological control of rush skeletonweed – Service Contract through Cost Share Agreement RSWTF/ISDA. 04/01/06-03/31/07. **(A&I)**

Schwarzländer, M. \$20,000. Biological control of hoary cress and perennial pepperweed – Memorandum of Agreement. USDI BIA. 04/01/06-12/31/06. **(A&I)**

Mark Schwarzländer. \$10,000. Biological control of Canada thistle on tribal lands in the Dakotas – Memorandum of Agreement. USDI BIA. 07/01/06-12/31/06. **(A&I)**

Prather, T. and Schwarzländer, M. (\$25,000 spending authority). Yellow Starthistle Research and Technology Development in Idaho. USDA CSREES Special Cooperative Agreement 5325-220000-017-085 Amendment, 08/01/06-07/31/07. **(A&I)**

Schwarzländer, M. \$37,500. Technology transfer field days for tribal and BIA land managers. Memorandum of Agreement, Bureau of Indian Affairs. 01/01/05-12/31/07. **(E)**

Schwarzländer, M. \$10,000. Biological control of tansy ragwort. Service Contract Clearwater CWMA, 07/01/06-07/31/07. **(A&I)**

Schwarzländer, M. \$33,000. Biological control education workshops for land managers, Memorandum of Agreement, Nez Perce Bio-Control Center, 02/01/06-02/28/07. **(E)**

Mark Schwarzländer. \$11,000. Biological control release and research on rush skeletonweed, Service Contract, U.S. Forest Service, Nez Perce National Forest 05/01/06-07/31/07. **(A&I)**

Mark Schwarzländer. \$6,000. Biological control impact monitoring, Wallowa Resources – The Nature Conservancy, 08/01/06-09/30/07. **(A&I)**

[§]Schwarzländer, M. and Weaver, D. (\$75,000 spending authority). Development of guidelines to assist managers with implementation of biological control of Dalmatian and yellow toadflax using *Mecinus janthinus*, an introduced stem mining weevil. USFS Special Technology Development Proposal. 04/01/06-03/31/09. **(A&I)**

2005 Grants and Contracts Awarded (Sole Spending Authority: \$221,400)

Schwarzländer, M. \$27,500. Biological control of hoary cress and Canada thistle. USDA APHIS, Memorandum of Agreement. 04/01/05-03/31/06. **(D)**

Schwarzländer, M. \$62,400. Evaluation of hoary cress habitats and indigenous insect herbivory, and support of foreign exploration for biological control. Idaho State Dept. of Agriculture. 01/01/04-12/31/04. **(D)**

Schwarzländer, M. \$10,000. Biological control of hoary cress – Memorandum of Agreement. USDI BIA. 04/01/05-12/31/05. **(A&I)**

Prather, T. and Schwarzländer, M. (\$17,500 spending authority). Yellow Starthistle Research and Technology Development in Idaho. USDA CSREES Special Cooperative Agreement 5325-220000-017-085 Amendment, 08/01/05-07/31/06. **(A&I)**

Schwarzländer, M. \$40,000. Technology transfer field days for tribal and BIA land managers. Memorandum of Agreement, Bureau of Indian Affairs. 01/01/05-12/31/07. **(E)**

Schwarzländer, M. \$15,000. Biological control of tansy ragwort. Service contract Clearwater CWMA, 08/01/05-07/31/06. **(A&I)**

Schwarzländer, M. \$10,000. Biological control of tansy ragwort. Task Order, Potlatch Corporation, 01/01/06-12/31/06. **(A&I)**

Schwarzländer, M. \$25,000. Biological control education workshops for land managers, Memorandum of Agreement, Nez Perce Bio-Control Center, 03/01/05-02/28/06. **(E)**

Schwarzländer, M. \$8,000. Biological control release and research on rush skeletonweed. Service Contract, U.S. Forest Service, Nez Perce National Forest 08/01/05-07/31/06. **(A&I)**

Schwarzländer, M. \$6,000. Biological control impact monitoring, Wallowa Resources – The Nature Conservancy, 10/01/05-09/30/06. **(A&I)**

2004 Grants and Contracts Awarded (Sole Spending Authority: \$254,600)

Schwarzländer, M. \$11,900. Evaluating biocontrol of the invasive weed houndstongue. Idaho State Department of Agriculture. 01/01/04-12/31/04. **(D)**

- Schwarzländer, M. \$72,000. Evaluation of hoary cress habitats and indigenous insect herbivory, and support of foreign exploration for biological control. Idaho State Dept. of Agriculture. 01/01/04-12/31/04. **(D)**
- Schwarzländer, M. \$5,500. Biological control of rush skeletonweed – Task Order. USDI BLM. Amendment. 08/31/04-12/31/04. **(A&I)**
- Schwarzländer, M. \$10,000. Biological control of hoary cress – Memorandum of Agreement. USDI BIA. 04/01/04-12/31/04. **(A&I)**
- Schwarzländer, M. \$15,000. Assessing the environmental safety of *M. cruciger* and *M. borraginis*. Big Horn Drainage Weed and Pest Districts, Worland, WY. Service contract 01/01/05-12/31/05. **(A&I)**
- Schwarzländer, M. \$18,000. The impact of *Eustenopus villosus* on yellow starthistle – Task Order. USDI BLM. Amendment 08/01/04-07/31/05. **(A&I)**
- Prather, T. and Schwarzländer, M. (\$17,500 spending authority). Yellow Starthistle Research and Technology Development in Idaho. USDA CSREES Special Cooperative Agreement 5325-220000-017-085. Amendment, 08/01/04-07/31/05. **(A&I)**
- Schwarzländer, M. \$25,000. Technology transfer field days for tribal and BIA land managers. Memorandum of Agreement, Bureau of Indian Affairs. 01/01/05-12/31/05. **(E)**
- Schwarzländer, M. \$20,000. Assessing the impact of biological control of rush skeletonweed. Memorandum of Agreement, U.S. Forest Service, 07/04/04-06/30/06. **(A&I)**
- Schwarzländer, M. \$10,000. Biological control of tansy ragwort. Service Contract Clearwater CWMA, 08/01/04-07/31/05. **(A&I)**
- Schwarzländer, M. \$10,000. Biological control of tansy ragwort. Task Order, Potlatch Corporation, 01/01/05-12/31/05. **(A&I)**
- Schwarzländer, M. \$25,000. Biological control education workshops for land managers, Memorandum of Agreement, Nez Perce Bio-Control Center, 01/01/04-12/31/04. **(E)**
- Schwarzländer, M. \$5,000. Production of biological control identification card sets, Service contract, U.S. Forest Service, 01/01/05-07/31/05. **(E)**
- Schwarzländer, M. \$9,700. Biological control identification card sets, Memorandum of Agreement, U.S. Forest Service, 01/01/05-07/31/05. **(E)**
- 2003 Grants and Contracts Awarded (Sole Spending Authority: \$230,490)**
- Schwarzländer, M. \$11,490. Evaluating biocontrol of the invasive weed houndstongue. Idaho State Department of Agriculture. 04/01/03-12/31/03. **(D)**
- Schwarzländer, M. \$56,000. M. Evaluation of hoary cress habitats and indigenous insect herbivory, and support of foreign exploration for biological control. Idaho State Dept. of Agriculture. 04/01/03-12/31/03. **(A&I)**
- Schwarzländer, M. \$22,000. Biological control of rush skeletonweed – Task Order. USDI BLM. 08/31/03-09/01/04. **(D)**
- Schwarzländer, M. \$10,000. Biological Control of hoary cress – MOA. USDI BIA. 04/01/03-12/31/03. **(D)**
- Schwarzländer, M. \$20,000. Assessing the Environmental Safety of *Mogulones cruciger*. Big Horn Drainage Weed and Pest Districts, Worland, WY. 04/01/03-03/31/04. **(A&I)**
- Schwarzländer, M. \$20,000. The Impact of *Eustenopus villosus* on Yellow Starthistle – Task Order. USDI BLM.. 08/01/03-07/31/04. **(A&I)**
- Prather, T., Schwarzländer, M., Wilson, L., Bunting, S. and Kingery, S. (\$21,000 spending authority). Yellow starthistle research and technology development in Idaho USDA CSREES Special Cooperative Agreement 5325-220000-017-085 08/01/03-07/31/04. **(A&I)**

§Schwarzländer, M. \$45,000. Biological control of weeds implementation field days. EPA RGI Program. 08/01/03-12/31/04. **(E)**

Schwarzländer, M. \$25,000. Technology transfer field days for tribal and BIA land managers. Memorandum of Agreement, Bureau of Indian Affairs. 03/17/03-12/31/03. **(E)**

2002 Grants and Contracts Awarded (Sole Spending Authority: \$137,000)

§Schwarzländer, M, Prather, T. and Wilson, L. \$20,000. Evaluating biocontrol of the toxic, invasive weed, houndstongue to improve rangeland quality. David Little Livestock Range Management Endowment. 04/01/02-03/31/03. **(A&I)**

Schwarzländer, M. and Prather, T. \$52,000. Evaluation of hoary cress habitats and indigenous insect herbivory, and support of foreign exploration for biological control. Idaho State Dept. of Agriculture. 04/01/01-12/31/02. **(D)**

Schwarzländer, M. \$30,000. Biological control of rush skeletonweed. Task Order. USDI BLM. 08/31/02-09/01/03. **(A&I)**

Schwarzländer, M. \$10,000. Biological Control of Hoary Cress – MOA. USDI BIA. 07/17/02-12/31/02. **(D)**

Prather, T., Schwarzländer, M., Wilson, L., Bunting, S. and Kingery, S. (\$25,000 spending authority). Yellow Starthistle Research and Technology Development in Idaho. USDA CSREES Special Cooperative Agreement 5325-220000-017-085 08/01/02-07/31/03. **(A&I)**

2001 Grants and Contracts Awarded (Sole Spending Authority: \$245,560)

§Schwarzländer, M., Prather, T. and Wilson, L. \$20,000. Evaluating biocontrol of the toxic, invasive weed, houndstongue to improve rangeland quality. David Little Livestock Range Management Endowment. 04/01/01-03/31/02. **(A&I)**

Schwarzländer, M. and Prather, T. \$44,950. Evaluation of hoary cress habitats and indigenous insect herbivory, and support of foreign exploration for biological control. Idaho State Dept. of Agriculture. 04/01/01-12/31/01. **(D)**

§Schwarzländer, M. \$161,403. Biological control of hoary cress: effects of surrogate insect herbivory and interspecific plant competition. USDA CSREES NRI 51.7. 01/01/02-12/31/04. **(D)**

Schwarzländer, M. \$8,790. Novel approaches to evaluate the environmental safety of insects used in biological weed control. University of Idaho Seed Grant Program. 07/02/01–06/30/02. **(A&I)**

Schwarzländer, M. and Prather, T. \$5,917. Development and production of laminated card sets for the identification of noxious weeds and their biological control agents. University of Idaho Mini IPM Grant Program. 04/01/01-12/31/01. **(E)**

Schwarzländer, M. \$4,500. Development and production of laminated card sets for the identification of noxious weeds and their biological control agents. U.S. Forest Service Cost Share Agreement. 04/01/01–06/30/02. **(E)**

SERVICE:

Major University of Idaho Committee Assignments:

Member of University of Idaho Dismissal Hearings Committee, 2012-present.

Member of University of Idaho Admission Appeal Committee. 2010-2012.

Chair, University of Idaho Admission Appeal Committee 2012-2013.

Member of College of Agricultural and Life Sciences (CALs) Promotion Tenure Committee 2004 - 2007.

Co-Director CRISSP (Center for Research on Invasive Species and Small Population) and 2 of its sub-

committees, 2008 - present.

Academic Advisor of the University of Idaho Aldrich Entomology Club, 2006 - present. Coached student teams for 2011 and 2012 Pacific Branch Ent. Soc. America. 'Linnaean Games'; coached students for 2012 Ent. Soc. America Annual Mtg. 'Student Debate.'

University of Idaho representative for USDA Western Regional Project W1185/W2185/W3185 'Biological Control in Plant Pest Management Systems', 2002 - present.

Chair of USDA Western Regional Project W2185 'Biological Control of Plant Pest Management Systems' 2010.

Member of PSES departmental 'Manis Entomology Laboratory User Committee', 2001 - present.

Other Committee Assignments:

Vice President (and founder) of 501c3 non-profit organization 'Northern Rockies Invasive Plant Council' (NRIPC) www.nripc.org. 2008 - present.

Member on the Western Regional Panel (WRP) for Aquatic Invasive Species, a regional committee of the Federal Agency FICMNEW National Aquatic Nuisance Species Task Force. 2008 - present.

Idaho Weed Control Association Board of Directors representing the University of Idaho. 2009 - 2010.

Member of the Biocontrol Task Force (BTF), a committee that develops recommendations for the Idaho Weed Coordinating Committee IWCC. 2001 - present.

Coordinator of the International Hoary Cress Consortium (HCC), a multi-national, multi-agency, and university effort to develop biologically-based management strategies for hoary cress (*Lepidium draba*). 2001 - present.

Member of the Rush Skeletonweed Task Force (RSWTF), an Idaho-based multi-state, multi-agency coordinating committee that provides coordination of research efforts and management strategies for the integrated management of rush skeletonweed. 2000 - present.

Steering member of the Dyers Woad Task Force, 2009-present.

Co-coordinator of the Perennial Pepeerweed Biocontrol Consotium, 2007-2011.

Outreach Service:

Montana Weed Control Association Weed Times: 'Update on the Houndstongue Police Car Moths'. Full page article. Volume 30:4. Winter 2012. 960 words.

Montana Weed Control Association Weed Times - 'Native *Gnophaela vermiculata* Caterpillar Discovered on Exotic Houndstongue', Full page article. Volume 30:2. Summer 2012. 720 words.

Yakima Nation Tribal Journal SIN-WIT-KI - 'Locals/staff learn how to use insects to control knapweed on the rez.' Full page article on workshop in Toppenish, WA. Volume 10:2. Summer 2005.

Interview with Dan Hansen and Shawn Jacobson at a purple loosestrife biological control release site in St. Maries, Idaho for an article entitled 'Alien weeds infest Northwest' published on the front page of the Sunday edition of the Idaho Spokesman-Review, 8 July 2001.

Provided biological weed control expertise for seven Cooperate Weed Management Areas (Palouse CWMA, Clearwater CWMA, Inland Empire CWMA, Selkirk, and Blaine County CWMA, Utah & Idaho CWMA, and the Tri-State Demonstration Area), 2002 - present.

Membership in Professional and Scholarly Organizations:

Botanical Society of America (BSA). 2004 - 2009.

British Ecological Society (BES). 1997 - 2009.

Ecological Society of America (ESA) 2004 - 2009.

Entomological Society of America (ESA). 1993 – present.

Entomological Society of Canada (ESC). 1997 – 2009.

Fellow of the Royal Entomological Society. 2000 – present.

International Organisation for Biological Control (IOBC). 1997 – 2009.

Grant Proposal Reviewer and/or Panel Member:

USDA NRI Entomology and Nematology/Arthropod Biology, USDA NRI Biological Based Pest Management, NSF Ecology and Evolutionary Biology, EPA STAR Program, USDA Forest Service BCIP, University of Idaho Stillinger Foundation

Manuscript Reviewer:

Oikos, Plant Ecology, Ecology, Annals of the Entomological Society of America, Biocontrol, Biocontrol Science and Technology, Biological Control, Biological Invasions, Canadian Journal of Plant Science, Entomologia Experimentalis et Applicata, Environmental Entomology, Invasive Plant Science and Management, Journal of Applied Entomology, Weed Technology

PROFESSIONAL DEVELOPMENT:

Attended the University of Idaho new faculty orientation

Attended the University of Idaho IDEAS software training

Attended the BANNER financial administration software training