

ASPT Graduate Student Research Grant Final Report

2017 Recipients

Please complete (typed) this form by **August 1, 2018** and submit it as a doc attachment to: Shawn Krosnick, skrosnick@tntech.edu

Name: Alexa DiNicola

Department: Dept. of Botany

Institution: University of Wisconsin-Madison

City: Madison

State: WI

Postal/Zip Code: 53706

Country: United States of America

Title of Study: Evolution of the *Potentilla breweri* complex: adaptation, hybridization, and radiation in the Great Basin sky islands

Amount awarded: \$800.00

Report:

****In the space below, please type a report of no more than 200 words (3-4 sentences) that explains how you used the funds awarded to you. You should indicate the status of your research project (i.e. completed, ongoing, currently analyzing data etc.) and how the funds contributed to that status (what you were able to accomplish, e.g. specimen collecting, data generation, data analyses).**

My research project is an ongoing study of evolutionary patterns and processes in the *Potentilla breweri* complex, a montane/subalpine wildflower group from the Great Basin and Pacific cordillera. It's a historically difficult group; I'm studying its phylogeny, morphology, breeding systems, *and* biogeography, using results from each to inform the analysis of all the others. Several summers of field collecting are needed to gather the breadth of data necessary for this ambitious a project. In 2017, my ASPT funds covered the cost of a rental vehicle for the summer's field work, in which I collected my study species from 18 sites across the full length of Oregon and California. The 2017 sites included two type localities, neither of which had been located in at least 100 years, and much of the complex's range of ecological and morphological variation. Without funding for several weeks of four-wheel-drive vehicle rentals, I couldn't have sampled even a fraction as many sites, since they are widely scattered and many are inaccessible except by 4WD roads.

****Please also attach a digital photo that represents you and your research as funded by ASPT, named as follows: lastname_firstname.jpg.**

****Due to new EU privacy regulations that went into effect on May 25, 2018, please confirm that ASPT has your permission to publicize your photo and research grant information in the Botany 2018 banquet PowerPoint presentation, the ASPT Website, ASPT Facebook page, twitter, or publicity statements distributed by the ASPT Public Relations Committee. This information could include, but may not be limited to, your photo, name, institution, grant title, and follow-up grant report. Does ASPT have your permission? **Y** yes no**