

Biography

Lauren Svejcar worked in various fields of ecology including weed science and restoration ecology, and is currently pursuing a PhD at Murdoch University and Kings Park Botanic Garden with Drs. Rachel Standish, Ben Miller, Jason Stevens and Joe Fontaine.

EcoTAS abstract

Plant-plant interactions drive plant community structure and dynamics. In the last 20 years, a renewed interest in facilitation, rather than competition, has driven a change in perspective from one of all species being independent to a more integrated community perspective. Facilitation is likely to play a large role in environments where abiotic factors limit establishment. For example, in post-mine restoration sites in the Swan Coastal Plain seedlings are exposed to high surface soil temperatures, frequent wind and low nutrient soils. The goal of our research is to test the intraspecific interactions of a N-fixing and non N-fixing species in a post-mine restoration site, and to determine whether a comparison of spatial patterns at emergence and after the summer drought suggest N-fixers help one another more than non-N-fixers to establish. We planted 640 seeds of *Acacia pulchella* (N-fixing) and *Regelia inops* (non N-fixing) in random spatial patterns within two separate plots (each 2 m × 4 m) to obtain a range of different distances between seedlings. Seedling

Restoration Ecology (2)

📅 Tuesday, November 28, 2017

🕒 4:00 PM - 6:00 PM

📍 Bimbadeen Room

📣 Speed Talk PLUS Poster

👤 **Svejcar L**^{1,2}, Standish R¹, Fontaine J¹, Miller B², Stevens J²

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² Kings Park and Botanic Garden, Kings Park WA, Australia

Can facilitation between plants help ecological restoration after sand mining?

emergence and height will be measured periodically from spring 2016 to autumn 2018, and above-ground biomass will be collected in autumn 2018. Preliminary results suggest timing in addition to spatial patterns of emergence play a critical role in seedling persistence.



EcoTAS 2017

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EcoTAS17 Presenters

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Kiri (Reihana) Spraggs

EcoTAS abstract

The widespread degradation of water quality and quantity and its state of mauri, is a significant issue for Māori. This issue is represented by widespread degradation of

Open session (1)

Monday, November 27, 2017

3:45 PM - 5:45 PM

Sugarloaf Room

Oral presentation