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Education:

PhD: **University of Idaho, 2015** MS: **Virginia Tech, 2001** BS: **Virginia Tech, 1998**

General Areas of Expertise:

Social-Ecological Systems Science; Invasion Ecology; Plant-Fungal Symbiosis;
 Community-Based Observing Networks and Systems; Food Energy Water Systems

Short Bio:

I have B.A. and M.A. degrees from Virginia Tech, a PhD in Environmental Science from University of Idaho, and am currently a Postdoctoral Research Fellow at the Center for Resilient Communities at the University of Idaho. Previously, I worked as a grant writer, a science writer, and an instructor in the Interdisciplinary Studies Departments at both Virginia Tech and Appalachian State Universities. I am Co-PI on two NSF Research Coordination Networks, the Mountain Social Ecological Observatory Network (MtnSEON) and RCN: EyesNorth. My current research foci are: Food, Energy, Water Systems (FEWS); Community-Based Observing Networks and Systems; Environmental Security; and Resilience of Social-Ecological Systems.

Five Representative Publications:

- Altaweel, Virapongse, Griffith, Alessa, and Kliskey (2016) "A Typology for Complex Social-Ecological Systems in Mountain Communities," *Sustainability: Science, Practice, & Policy* 11(2), 1-13.
- Newcombe, Campbell, Griffith, Baynes, Launchbaugh, and Pendleton (2016) "Revisiting the life cycle of dung fungi, including *Sordaria fimicola*," *PLOS ONE* 11(2), e0147425.
- Alessa, Kliskey, Pulsifer, Griffith, Williams, ..., & Jackson (2016) "Best Practices for Community-based Observing: A National Workshop Report (Oct 5-6, 2015, Seattle, WA)," Moscow, ID: Center for Resilient Communities, 30pp.
- Griffith, Larkin, Kliskey, Alessa, and Newcombe (2017) "Expectations for habitat-adapted symbiosis in a winter annual grass," *Fungal Ecology* 29, 111-115.
- Griffith, Alessa, and Kliskey (2017) "A Typology of Community-Based Observing," *NMIO Technical Bulletin* 12, 32-39.
- Griffith, Alessa, and Kliskey (In Press) "Community-Based Observing for Social-Ecological Science: Lessons from the Arctic," *Frontiers in Ecology and the Environment*.

FEWSTERN Symposium 2017 Presentation Title and Abstract:

"INFEWS/T3--Social-ecological-technological solutions to waste reuse in food, energy, and water systems (ReFEWS)"

It is only recently that the issues of food and agricultural production waste have come to the public's attention via media and agency campaigns to raise awareness. However, it is clear that technologies to reclaim food and agricultural waste are, in and of themselves, only part of a landscape of food (nutrients), energy, and water systems (FEWS). Systems approaches offer solutions that researchers, producers, consumers, and policy makers can use to move toward more optimized FEWS. Our NSF-funded project is mapping the FEWS of the Upper Snake River Basin (USRB) of Idaho as a social-ecological-technological system, engaging a Stakeholder Advisory Group to inform our understanding of the FEWS, and identifying systems approaches to reducing and reusing waste. My presentation will focus on stakeholder engagement, initial results from mapping the system, and our developing understanding of the FEWS in the USRB.