

JOINT EVENT

5th World Conference on Climate Change

&

16th Annual Meeting on

Environmental Toxicology and Biological Systems

October 04-06, 2018
London, UK



Carolyn (Tally) Palmer

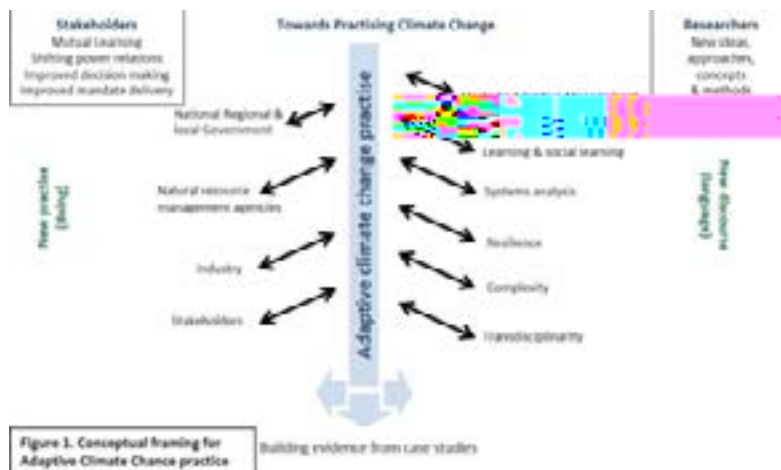
Rhodes University, South Africa

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Statement of the Problem: Interventions for development, sustainability, and/or climate change adaptation have a history of ambiguous outcomes and outright failures. How can interventions, and especially those that involve government, research and stakeholders, including local residents, result in sustainable outcomes that persist beyond the intervention, and move towards climate change behavior-change in the practice of all participants?

Methodology & eoretical Orientation: e underpinning methodology is transdisciplinary (TD). Critical realism provides a theoretical foundation for discerning causal mechanisms in complex systems using the full range of disciplinary enquiry. e concept of complex social-ecological systems (CSES) provides a lens to forefront the role adaptation and feed-back. Expansive learning provides the mechanisms to guide processes of co-learning and the co-development of knowledge. Strategic adaptive management provides practical on-the-ground steps for stakeholders to participate in an adaptation process. e governance system in each particular CSES provides the contextual possibility of a process that will persist. Participatory governance brings the vitality and relevance of civil society. Eight case studies to probe the challenging question of whether painstaking on-the-ground trust-building; activating participatory governance processes; and engaging in re exive praxis, can catalyze change towards climate change adaption, speci cally focusing on water scarcity.

Conclusion & Signi cance: e selected approach is slow, with many pitfalls. ere are not many examples of unequivocal success. However, we can demonstrate learning, begin to understand failure more deeply, and most importantly share "narratives of hope" Pace of progress and the di culty of persevering. ese "narratives of hope" are the landmarks to encourage perseverance until a bigger body of evidence emerges and principles of practice are re ned. We have enough examples of participatory governance being a key lever for ongoing change towards climate change adaptation to suggest it is worth persevering. e approach is easy to criticize – especially in terms of the pace of progress and the di culty of persevering with these processes. ese "narratives of hope" are the landmarks to encourage perseverance until a bigger body of evidence emerges and principles of practice are re ned.



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Recent Publications

1. Palmer C G, Biggs R and Cumming G S (2015) Applied research for enhancing human well-being and environmental stewardship: using complexity thinking in Southern Africa. *Ecology and Society* 20(1):53.
2. Lang D J, Wiek A, Bermann M, Stauacher M, Martens P, et al. (2012) Transdisciplinary research in sustainability science: practice, principles, and challenges. *Sustainability Science* 7(5):25–43.
3. Folke C (2006) Resilience: the emergence of a perspective for social-ecological systems analyses. *Global Environmental Change* 16(3):253–267.
4. Cilliers P (2000) What can we learn from a theory of complexity? *Emergence* 2(1):23-33.

Biography

Carolyn (Tally) Palmer has a research trajectory from aquatic ecology and environmental water quality, together with water law and policy development, to a commitment to the transformative capacity of engaged, transdisciplinary action research praxis, based on a conceptual framing of complex social-ecological systems. Her concept of Adaptive Integrated Water Resource Management includes the recognition that participatory governance – people at the interface of knowledge production, practice and politics creates a sustainability platform and pathway that can be the foundation of local to at least national scale climate-change adaptation. At the interface of sustainability science, policy, and practice it is practice that most often fails. Carolyn brings a coherent set of transdisciplinary case studies from across South Africa to argue that

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