THESIS SYNOPSIS

The Nature of Imagination in Education for Sustainability

Dr Sally Jensen
Deakin University

Supervisors
Associate Professor Mary Dixon and Dr Lou Preston

Thesis Abstract

The importance of imagination in education has a significant history (Egan, 1986, 2001; Eisner, 1976; Greene, 1988; Steiner, 1954; Warnock, 1976); however, scholarship is often theoretical, and the involvement of imagination in understanding sustainability is often overlooked (Jones, 1995; Judson, 2010; Stewart, 2009). Imagination has rarely been the subject of Environmental Education (EE) and research. Its nature is contested, and its workings can be concealed by formal notions of knowing and learning. Contemporary environmental philosophies argue that education can often contradict its aims through limited understandings of environment and knowledge (Orr, 1991, 1992; Weir, 2008; Whitehouse, 2011). This thesis reconceptualises imagination as a way of knowing and learning in environmental terms. The study investigates the role of imagination in Education for Sustainability (EfS) contexts and critically analyses how imagination is involved in understanding sustainability for teachers and learners. The possibility of imagination as environmental knowledge, and as essential to resolving environmental problems, is applied in this research.

The guiding theoretical framework draws largely upon Australian environmental philosophies (Gough, 1999; Matthews, 1991; Plumwood, 1993, 1999; Rose, 1996), and qualitative and arts-based educational research (Barone & Eisner, 2012; Jones, 2013; MacLure, 2013), as well as contemporary writings of material eco-criticism (Oppermann, 2013) and the New Materialisms (Barad, 2001, 2003, 2007; St Pierre, 2013). A New Materialist epistemological position considers all matter to have agency in knowledge making, so that knowledge is not confined to the human brain but embedded and discursive as all matter and the earth. In this thesis, EfS is framed by this New Materialist perspective.

The research design involves a combination of interviews and participant observation in a range of EfS settings across Victoria, Australia. To identify and understand imagination in these environmental education contexts, a coordinated palette of interdisciplinary perspectives and interpretations of imagination were brought together, such as the work of educational scholars Egan (2001), Dewey (1902), and Vygotsky (1932/1987), as well as creative writers’ views, such as Malouf (1998) and Rowling (2008), and contemporary research (Macknight, 2009; Stewart, 2009).
Seven interviews with self-identified EfS educators from a range of primary, secondary, and tertiary settings were conducted at their workplaces. The interviews discussed the educators’ pedagogical approaches to teaching and learning sustainability concepts. During the interviews, imagination was not referred to directly until the last open-ended question. Additionally, 14 weeks’ participant-observation research at a 5-Star Sustainable primary school examined how imagination occurs in a sustainability education program for students and teachers. Visual, audio and written data, interviews with educators and students, reflective notes, and a range of visual material were gathered.

A diffractive, narrative discourse analysis views the data as learning stories, and examines how imagination arises in EfS, how imagination is understood in teaching and learning, and the extent to which imagination works to construct and expand ways of seeing the world for students and teachers.

Findings indicate that primary, secondary and tertiary educators work creatively to facilitate understanding the environmental realities that constitute matter, resources, and systems. The analysis narrates how educators use images, stories and metaphorical thinking to facilitate students’ ability to imagine other perspectives, or concealed realities that are not immediately tangible or apparent. Findings highlight the ways in which children are encouraged to imagine their way into the lives of non-human entities, think backwards and forwards in time, and imagine bigger picture perspectives involved in migration and global systems, as well as smaller worlds at the level of nutrition, energy or biodegradability. Teaching and learning often involves metaphors and comparisons in order to communicate and build conceptual understandings. The use of photographs and other images evoked narrative responses and discussions; for example, educators and students constructed meaning through positioning matter as a storyteller with a life and a narrative. Imaginary perspectives were encouraged, such as asking questions about the feelings and perspectives of animals, resources, and objects themselves. As the analysis discusses the ways in which imagination contributes to students’ and teachers’ experiences and understandings in EfS, it recognises the complex, conceptual work of understanding the many dimensions of sustainability.

The thesis advances new understandings of imagination in EfS and provides a unique view of contemporary EfS practices. The imagination is reconceptualised as a way of knowing, learning, and understanding environmental knowledge, particularly in Australia. It argues that imaginative ways of knowing bring into being a concealed level of existence and relationships that are essential to understanding sustainability. This has important implications for the future of EfS and EE. Further advocacy and research is needed that considers imagination as a part of environmental knowledge to make educating students’ environmental imaginations a central consideration of EE theory, research and practice.

References


**Publications**


**Access**

http://dro.deakin.edu.au/view/DU:30073007

http://hdl.handle.net/10536/DRO/DU:30073007

**Author Biographie**

Sally Jensen is a sustainability educator and environmental education researcher. She worked for 6 years in the education team at CERES Environment Park in Melbourne and facilitated the Australian Sustainable Schools Initiative to over 22 schools across Victoria. She worked at the Green School in Bali, Indonesia and completed her PhD in 2014.