

# Alder Stone Fuller, Waterville, ME

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## Education

- PhD, Evolutionary Biology and Ecology, 1990, University of New Mexico, Albuquerque
- MS, Probability Theory and Mathematical Statistics, 1984, University of Memphis
- MS, Biological Systematics, 1976, University of Memphis
- BS, Invertebrate Biology, 1973, University of Memphis

## Professional Experiences

- 2011 – now: Seminars, courses & consulting in system & life sciences, geophysiology & climate change
- 2001 – 2010 : founded and taught at a small, independent school in Eugene, Oregon, focused on system sciences, geophysiology & climate change
- 1998 – 2000 : professional hiatus for travel, study & development as an independent educator
- 1990 – 1997 : taught biology & math full-time at Central New Mexico Community College, Albuquerque
- 1973 – 1989 : various graduate teaching and research positions in biology and mathematics during graduate studies at universities, and a part-time community college position.

## Personal description

After completing my formal education, independent study of system sciences during the 1990's changed my views of nature, life, science and education so profoundly that I became disinterested in teaching science and mathematics from a traditional reductionist and mechanistic perspective common in contemporary schools and colleges. Like many of the great scientists, writers and philosophers of our time, I came to deeply understand that the principles of systems sciences can – and *must* - provide a foundation for the emergence of *truly* ecologically sustainable cultures in the face of our formidable 21st century planetary challenges.

However, introducing new ideas into an established curriculum in an integrated way requires years of convincing curriculum committees. Yet, these new ideas are *urgently* needed *now*; there is not time to proceed through 'normal channels'. Therefore, since 2001, I have been an independent educator offering seminars, courses and consulting not available anywhere else in the US in such an integrated way. I teach independently rather than in 'mainstream' educational institutions so that I can offer these ideas in creative ways in a timely fashion. Plus, by working outside of regular colleges, I can make them available to not just college students, but to all people.

In July, 2010, I migrated to Maine for a complex suite of reasons, including its geography, ecology, geology, human cultures and favorable location for coming climate changes. Although Maine will not be spared from huge climate changes, it is a good place to be relative to most of the 'lower' 48 United States. Further, if we *understand* what is coming, we can prepare for it and make the transition *far* more effectively.

My program – including an evolving collaborative, community program called 'The Adaptability Project' - can contribute to help people and communities understand coming changes *and* how to prepare by shock-proofing our systems to meet basic needs like water, food, shelter, energy, health care, etc. System sciences have much to offer for understanding the challenges and preparing for them. *Equally importantly*, they can help people build fundamentally new relationships with Earth, which is crucial to our survival.

In addition to teaching, I am writing a book about systems sciences, biological systems, geophysiology, and their relevance to the future evolution of human cultures. It is a compilation - a primer - of ideas that I use in my introductory and advanced seminars and courses.

I am also a backpacker, mountaineer, and lover of big wilderness; a student of the relationship between science, art and mythology; a photographer; a poet, electronic percussionist, and passionate dancer to electronic dance music with fast beats, often called 'techno'.