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Eawag Seminar Invitation

A Complex Adaptive Systems Perspective on Sustainability: Limits to Governability and Management

Speaker	Prof. Jon Norberg
	Stockholm Resilience Centre, Sweden
When	October 25, 11.00 – 12.00 a.m.
Where	Forum Chriesbach, room C20, Eawag Dübendorf
Abstract	The complex adaptive systems (CAS) perspective entails a focus on diverse components that connect
	in non-linear interaction networks and respond to emergent phenomena which they are also an
	integral part of. Biology, societies, cultures and markets are all examples of CAS. Being so pervasive,
	what consequences do CAS phenomena have for understanding, governability and management? In this talk I will be highlighting some of the challenges of CAS dynamics in our quest for sustainable
	practices and I will discuss the general consequences this creates in societal decision making.
	In the first example, I will illustrate how CAS dynamics can influence feedbacks between the biota and
	the global carbon cycles, linking the effects of biodiversity on global carbon stocks and flows to the
	capacity of the biota to respond to changing temperature regimes. The second example concerns our ability to govern resource users that are living in a socio-economic context which shape behaviours
	through emergent norms, and the implications this has for societal aspects of total revenue and
	income inequality.
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