

97th ESA Annual Meeting (August 5 -- 10, 2012)

**Monday,
August 6,
2012****10:15 AM - 11:30 AM**
*Portland Blrm 255***Research and Funding Priorities for SESYNC, the National Socio-environmental Synthesis Center**

Scott L. Collins, Margaret A. Palmer, Ray Hilborn, Laura Lopez-Hoffman, Simon Levin, Molly K. Macauley, James Boyd, Jonathan Kramer, Leslie Ries

01:50 PM
*D135*What's so special about alternative stable states?
*Karen C. Abbott***02:50 PM**
*D136*Indices of population viability
*Michael A. McCarthy, Alana L. Moore, Jochen Krauss, John W. Morgan***03:20 PM**
*E144*Autocorrelated environmental variation can increase invasion risk
*K. Cuddington, Alan Hastings***04:20 PM**
*D135*Investigating temporal patterns in the force of infection of dengue virus transmission using longitudinal serologic data
*Robert C. Reiner Jr., Alun Lloyd, Aaron A. King, Steven T. Stoddard, Tadeusz Kochel, Eric Halsey, Amy Morrison, Thomas Scott***04:40 PM**Ecosystem-based fisheries management: Moving from single-species to multi-species management
*Julie B. Kellner, James N. Sanchirico, Alan Hastings, Peter J. Mumby***08:00 PM - 10:00 PM**
*Portland Blrm 251***Critical Transitions the Movie**
Marten Scheffer, Marten Scheffer**Tuesday,
August 7,
2012****08:00 AM**
Portland Blrm 251

Introductory remarks

08:05 AMExploratory analysis and inference with broad-scale citizen science data
*Daniel Fink, Wesley M. Hochachka, Theodoros Damoulas, Jaimin Dave, Steve Kelling***08:55 AM**Hierarchical statistical models for ecological data: Combining explanation and prediction
*Andrew M. Latimer, Cory Merow, Adam M. Wilson***09:20 AM**Bridging the two cultures: Latent variable statistical modeling with boosted regression trees
*Thomas G. Dietterich, Rebecca A. Hutchinson***09:45 AM**

Break

09:55 AMPhysics envy vs. computer sciences envy: Shifting theoretical paradigms in ecology
*Jorge Soberon, Andres Lira-Noriega, Narayani Barve, A. Townsend Peterson***10:10 AM**
*Portland Blrm 258*Estimating the degree of compensation from fluctuations in fish biomass
*Justin D. Yeakel, Marc Mangel***10:45 AM**
Portland Blrm 251

Discussion

01:50 PM
*E145*Competitive plant responses to elevated CO₂ may significantly decrease a potential carbon sink
*Caroline E. Farrior, Ray Dybzinski, Sonja G. Keel, Steve Pacala***03:20 PM**
*Portland Blrm 258*Dynamics of plankton blooms: lessons from an epidemiological model
*Alan Hastings, John Largier***04:40 PM**
*F150*Faster tree speciation in wet versus dry habitats: Evidence from a rainfall gradient in the Panama Canal watershed
*Anping Chen, Shaopeng Wang, Stephen W. Pacala***Wednesday,
August 8,
2012****08:00 AM**
*D137*Malaria population dynamics with superinfection: Critical transitions and responses to forcing
*Mercedes Pascual, David Alonso, Yael Artzy, Andy Dobson***08:20 AM**
*C124*Buildings as metacommunities
Jessica L. Green, Brendan J.M. Bohannan, G.Z. (Charlie) Brown, Steven W. Kembel, Jeff Kline, Maxwell Moriyama, Timothy K. O'Connor, Ann M. Womack

	10:15 AM Portland Blrm 252	Livestock early warning systems: Translational ecology to improve risk management decision-making in pastoral regions <i>Jay P. Angerer</i>
	01:30 PM A106	21 st Century natural history – no longer alone on the <i>Beagle</i> <i>Josh Tewksbury, Stephanie Hampton, Terry A. Wheeler, Kirsten Rowell</i>
	01:50 PM	Big data and the future for ecology <i>Stephanie Hampton, Carly Strasser, Joshua J. Tewksbury, Wendy K. Gram, Amber Budden, Archer Batcheller, Clifford Duke, John H. Porter</i>
	02:10 PM	Storyomics: Proof that scientists evolved from humans <i>Randy Olson</i>
	02:30 PM	Beyond doomsday ecology: What if engaging with business were the answer for ecological science <i>Peter Kareiva, Virginia Matzek, Joseph Kiesecker, Jennifer L. Molnar</i>
	03:20 PM Portland Blrm 258	Critical transitions and the collapse of mutualistic networks <i>J. Jelle Lever, Egbert H. van Nes, Jordi Bascompte, Marten Scheffer</i>
	03:40 PM A106	Taking the ecological conversation online <i>Jarrett E. Byrnes</i>
	04:00 PM	Shaping the future: A view from conservation and management <i>Nyeema Harris</i>
	04:20 PM	Working with conflict: A missing piece of science communication and community engagement puzzle <i>Faith Kearns</i>
	04:30 PM - 06:30 PM Exhibit Hall DE	Effects of agriculture on evolution of native species <i>Scott A. Chamberlain, Kenneth D. Whitney, Jennifer A. Rudgers</i>
	06:30 PM - 08:00 PM F150	SESYNC-NCEAS Mixer
Thursday, August 9, 2012	11:30 AM - 01:15 PM F150	How to Access Ecological and Evolutionary Datasets in R <i>Karthik Ram, Carl Boettiger, Scott A. Chamberlain, Karthik Ram, Scott A. Chamberlain, Carl Boettiger</i>
	02:30 PM D138	Sources of heterogeneity and scales of transmission of mosquito-borne pathogens <i>T. Alex Perkins, David L. Smith, Thomas Scott</i>
	02:50 PM E144	Temporal trends in portfolio effects and stability of a salmon population complex <i>William H. Satterthwaite, Stephanie M. Carlson</i>
	03:20 PM Portland Blrm 255	Demographic stochasticity, invasion rates, and higher order interactions: Detecting the signal of 'emergent' community dynamics in an intrinsically noisy world <i>Jeremy W. Fox</i>
	04:00 PM E141	Conditional heteroskedasticity warns of impending regime shift in whole-ecosystem experiment <i>David A. Seekell, Stephen R. Carpenter, Timothy J. Cline, Michael L. Pace</i>
	04:20 PM	Zooplankton provide early warning of a regime shift in a whole lake manipulation <i>Michael L. Pace, Stephen R. Carpenter, Jason Kurtzweil, Robert A. Johnson</i>
	04:40 PM	Critical slowing down provides advance warning of population collapse <i>Lei Dai, Daan Vorselen, Kirill Korolev, Jeff Gore</i>
Friday, August 10, 2012	08:20 AM E143	Cross-scale interactions drive ecosystem responses to precipitation in the Chihuahuan Desert <i>Finn C. Pillsbury, Debra Peters, Dawn M. Browning, Michael C. Duniway</i>
	08:40 AM	Linking decision-making processes to land use patterns on the Great Plains <i>Mari Elise Ewing</i>
	09:00 AM Portland Blrm 256	Can functional traits explain variation in plant life history strategies? <i>Peter B. Adler, Aldo Compagnoni, Joanna Hsu, Roberto Salguero-Gomez, Jayanthi Mukherjee, Andrew R. Kleinheselink</i>
	09:00 AM E143	Diversity buffers agricultural yield under variable environmental conditions <i>Katherine K. Ennis, Lauren Cline, David J. Gonthier, Daniel W. Katz, Binbin Li, Lindsey MacDonald, Theresa Wei Ying Ong, Yahn-Jauh Su, Ivette Perfecto, Bradley J. Cardinale</i>

09:20 AM

Unknown unknowns: Management strategies under uncertainty and alternate stable states

Carl Boettiger, A. Hastings

*09:50 AM
D138*

Designing cost effective conservation payment programs

Paul R. Armsworth, Szvetlana Acs, Martin Dallimer, Kevin J. Gaston, Nick Hanley, Paul Wilson

*10:10 AM
Portland Blrm 256*

Selective pressure for increased demographic variability in a perennial plant community

Robin E. Snyder, Peter B. Adler, Stephen P. Ellner

*10:30 AM
E143*

Human-induced trait change in a recently collapsed salmon population complex

Stephanie M. Carlson, Eric R. Huber, William H. Satterthwaite

*10:50 AM
D139*

Stochastic fade-out in space: Will microscale disease-induced mortality along geographic corridors inhibit the macroscale spread of White-nose Syndrome?

Suzanne M. O'Regan, Krisztian Magori, J. Tomlin Pulliam, Marcus A. Zokan, RajReni B. Kaul, Heather D. Barton, John M. Drake