

## ZSL Science & Conservation Events: Symposium 24<sup>th</sup> – 25<sup>th</sup> April 2019

### Mitigating single pathogen and co-infections that threaten amphibian biodiversity

DAY 1: WEDNESDAY 24 <sup>th</sup> APRIL 2019	
09:30	<b>Welcome by Trent Garner, Zoological Society of London</b>
	<b>SESSION 1</b> Amphibians under threat, infectious disease and distributions <b>Chair: Trent Garner, Zoological Society of London</b>
09:40	<b>Phil Bishop, Amphibian Survival Alliance, Amphibian Specialist Group &amp; University of Otago</b> The global effort to conserve amphibians under threat
10:05	<b>Reid Harris, Amphibian Survival Alliance &amp; James Madison University</b> The Amphibian Conservation Action Plan for Emerging Infectious Diseases
10:30	<b>TEA &amp; COFFEE BREAK</b>
11:00	<b>Matthew Gray, University of Tennessee</b> Ranavirus Invasions: 50 years of research – now let's do something about it!
11:25	<b>Trent Garner, Zoological Society of London</b> <i>Batrachochytrium dendrobatidis</i> : the first chytrid threat and source of coinfections
11:50	<b>An Martel and Frank Pasmans, Ghent University</b> Bsal: translating basic science in mitigation actions
12:15	<b>Deanna Olson, USDA Forest Service</b> Mapping the spatial distribution of chytrids and ranaviruses
12:40	<b>DISCUSSION</b>
13:10	<b>LUNCH</b>
	<b>SESSION 2</b> Impacts, interactions and co-occurrences <b>Chair: Xavier Harrison, University of Exeter</b>
14:10	<b>Richard Griffiths, Durrell Institute of Conservation and Ecology, University of Kent</b> Amphibian trade and disease
14:35	<b>Matthew Fisher, Imperial College London and Stephen Price, Zoological Society of London &amp; University College London</b> Using pathogen genomics to track introductions through trade
15:00	<b>Ben Scheele, Australian National University</b> Living with the enemy: Coexistence of a highly susceptible frog species with chytrid fungus
15:25	<b>TEA &amp; COFFEE BREAK</b>
15:55	<b>Jason Hoverman, Purdue University</b> Environmental influences on ranavirus transmission and disease risk in amphibians
16:20	<b>Ana V. Longo, University of Florida</b> Pathogenic potential of chytrid co-infections in North American salamanders
16:45	<b>Annemarieke Spitzen, RAVON</b> What makes a small country big: the ubiquitousness of amphibian pathogens in the Netherlands
17:10	<b>DISCUSSION</b>
17:40	<b>DRINKS RECEPTION &amp; POSTER SESSION</b>
18:45	<b>SYMPOSIUM DINNER</b>

	<b>DAY 2: THURSDAY 25<sup>th</sup> APRIL 2019</b>
	<b>SESSION 3</b> Mitigating infectious disease I: Decision making and manipulations <b>Chair: Andy Fenton, University of Liverpool</b>
09:30	<b>Stefano Canessa, Ghent University</b> Decision making for mitigating amphibian diseases
09:55	<b>Erin Muths, U.S. Geological Survey</b> Amphibian translocations when disease threat remains
10:20	<b>TEA &amp; COFFEE BREAK</b>
10:50	<b>Cherie Briggs, University of California, Santa Barbara</b> Understanding transmission dynamics to identify mitigation targets
11:15	<b>Benedikt R. Schmidt, Info Fauna Karch &amp; University of Zurich, Switzerland</b> Mitigating chytridiomycosis: an experimental approach
11:40	<b>DISCUSSION</b>
12:10	<b>LUNCH</b>
	<b>SESSION 4</b> Mitigating infectious disease II: Microbiomes, immunogenetics and natural recovery <b>Chair: Matthew Fisher, Imperial College London</b>
13:10	<b>Xavier Harrison, University of Exeter and Molly Bletz, University of Massachusetts</b> Manipulating microbiomes in multihost and multipathogen systems
13:35	<b>Caren Helbing, University of Victoria</b> Genomics and identifying host and microbiome responses to infection
14:00	<b>Jacques Robert, University of Rochester Medical Center</b> Host immunity to ranavirus and chytrid fungal pathogens
14:25	<b>TEA &amp; COFFEE BREAK</b>
14:55	<b>Pieter Johnson, University of Colorado</b> Effects of severe drought on infections and coinfections in California amphibian communities
15:20	<b>Roland Knapp, University of California, Santa Barbara &amp; Sierra Nevada Aquatic Research Laboratory</b> Natural recovery of endangered frogs in the presence of Bd as a guide for active conservation measures
15:45	<b>Corinne Richards-Zawacki, University of Pittsburgh</b> Long-term monitoring reveals hope for recovery of Panamanian amphibian communities after a chytridiomycosis epizootic
16:10	<b>DISCUSSION</b>
16:40	<b>END OF SYMPOSIUM</b>