



Environmental Change Institute



MEGAFUNA & ECOSYSTEM FUNCTION

from the Pleistocene to the Anthropocene

Conference Programme

Tuesday 18 March 2014

Day 1: Causes and impacts of megafaunal loss

09:00 – 9:20	Introduction 20 MINUTES	YADVINDER MALHI	GHOSTS OF LOST GIANTS: WHAT IT MEANS TO LIVE IN A MEGAFUNA-DEPLETED WORLD, AND WHAT CAN OR SHOULD BE DONE?
09:20 – 09:50	20 MINUTE TALK + 10 MINUTES QUESTIONS	ADRIAN LISTER	MAMMOTH EXTINCTION, REFUGIA, AND THE EFFECTS OF CLIMATE AND PEOPLE
09:50 – 10:20	20 MINUTE TALK + 10 MINUTES QUESTIONS	DAVID NOGUÉS- BRAVO	ANCIENT DNA REVEALS PAST GLOBAL POPULATION DYNAMICS LINKS TO CLIMATE-DRIVEN RANGE DYNAMICS
10:20 – 10:50	20 MINUTE TALK + 10 MINUTES QUESTIONS	TODD SUROVELL	THE CASE FOR CLOVIS OVERKILL IN NORTH AMERICA
10:50 – 11:10	Coffee break		
11:10 – 11:25	10 MINUTE TALK + 5 MINUTES QUESTIONS	NATALIA VILLAVICENCIO	ECOLOGICAL STATE CHANGES AND MEGAFUNA EXTINCTIONS IN SOUTHERN PATAGONIA, SOUTH AMERICA
11:25 – 11:40	10 MINUTE TALK + 5 MINUTES QUESTIONS	LEWIS BARTLETT	ANTHROPOGENIC DRIVERS OF MEGAFUNA EXTINCTION: SUPPORT FROM A HIGH RESOLUTION, QUANTITATIVE GLOBAL ANALYSIS
11:40 – 11:55	10 MINUTE TALK + 5 MINUTES QUESTIONS	CHRISTOPHER J. SANDOM	GLOBAL LATE QUATERNARY MEGAFUNA EXTINCTIONS LINKED TO HUMANS, NOT CLIMATE CHANGE

11:55 – 12:25	20 MINUTE TALK + 10 MINUTES QUESTIONS	ANTHONY STUART	RADIOCARBON CHRONOLOGY OF EXTINCT AND SURVIVING MEGAFUNA IN NORTHERN EURASIA
12:25 – 12:55	20 MINUTE TALK + 10 MINUTES QUESTIONS	FELISA SMITH	RECALIBRATING THE ANTHROPOCENE: HUMANS, MEGAFUNA AND GLOBAL BIOGEOCHEMICAL CYCLES
12:55 – 14:00	Lunch break		
14:00 – 14:30	20 MINUTE TALK + 10 MINUTES QUESTIONS	BLAIRE VAN VALKENBURGH	PREDATOR–PREY DYNAMICS IN LATE PLEISTOCENE NORTH AMERICA
14:30 – 15:00	20 MINUTE TALK + 10 MINUTES QUESTIONS	KATHLEEN LYONS	MEGAFUNAL EXTINCTION AND ITS IMPACT ON MAMMALIAN COMMUNITY STRUCTURE
15:00 – 15:15	10 MINUTE TALK + 5 MINUTES QUESTIONS	SØREN FAURBY	ESTIMATED LOSS IN SPECIES, PHYLOGENETIC AND FUNCTIONAL DIVERSITY IN MAMMALS AS A CONSEQUENCE OF THE LATE PLEISTOCENE AND HOLOCENE RANGE COLLAPSES AND EXTINCTIONS
15:15 – 15:30	10 MINUTE TALK + 5 MINUTES QUESTIONS	CARLO MELORO	MEGAFUNA AND ECOSYSTEM DYNAMICS IN THE PLIO– PLEISTOCENE: INSIGHTS FROM THE ITALIAN FOSSIL RECORD
15:30 – 15:50	Coffee break		
15:50 – 16:20	20 MINUTE TALK + 10 MINUTES QUESTIONS	JAMES ESTES	MARINE MEGAFUNAL EXTINCTIONS AND TROPHIC CASCADES: WHAT REALLY HAPPENED TO STELLER’S SEA COW?
16:20 – 16:35	10 MINUTE TALK + 5 MINUTES QUESTIONS	MELISSA I. PARDI	TROPHIC DOWNGRADING BEFORE TROPHIC DOWNGRADING: THE INFLUENCE OF THE TERMINAL PLEISTOCENE EXTINCTION ON THE NORTH AMERICAN CARNIVORE GUILD
16:35 – 17:35	Panel Discussion		WHAT ROLE DID HUMANS PLAY IN THE PLEISTOCENE MEGAFUNA EXTINCTIONS?
17:35 – 19:00	Prosecco drinks reception and poster display		
19:00 ONWARDS	Dinner in the St John’s College Dining Hall <i>for ticket holders</i>		

Wednesday 19 March 2014

Day 2: Environmental impacts of megafaunal loss

09:00 – 09:30	20 MINUTE TALK + 10 MINUTES QUESTIONS	CHRISTOPHER JOHNSON	ECOLOGICAL IMPACTS OF EXTINCTION OF AUSTRALIA'S PLEISTOCENE MEGAFUNA
09:30 – 10:00	20 MINUTE TALK + 10 MINUTES QUESTIONS	JACQUELYN GILL	A NATURAL EXPERIMENT IN KEYSTONE HERBIVORE REMOVAL: PLEISTOCENE EXTINCTIONS, NOVEL COMMUNITIES, AND ENHANCED FIRE REGIMES IN NORTH AMERICA
10:00 – 10:30	20 MINUTE TALK + 10 MINUTES QUESTIONS	TRAVIS W. KNOWLES	TEMPERATE MOUNTAIN GRASSLANDS AS GHOSTS OF MEGAFUNA PAST
10:30 – 11:00	20 MINUTE TALK + 10 MINUTES QUESTIONS	CHRIS DOUGHTY	NUTRIENT DISPERSAL BY MEGAFUNA: ARE NUTRIENT LIMITATIONS A CONSEQUENCE OF THE PLEISTOCENE EXTINCTIONS?
11:00 – 11:20	Coffee break		
11:20 – 11:50	20 MINUTE TALK + 10 MINUTES QUESTIONS	LIESBETH BAKKER	DECLINE OF LARGE HERBIVORES: IMPACT ON VEGETATION IN TERRESTRIAL AND AQUATIC ECOSYSTEMS
11:50 – 12:20	20 MINUTE TALK + 10 MINUTES QUESTIONS	JENS-CHRISTIAN SVENNING	PRE-EXTINCTION INTERGLACIAL ECOSYSTEM STRUCTURE – THE EUROPEAN CASE AND GLOBAL PERSPECTIVES
12:20 – 12:50	20 MINUTE TALK + 10 MINUTES QUESTIONS	AHIMSA CAMPOS-ARCEIZ	THE RAPID DECLINE OF ASIA'S MEGAFUNA AND ITS CONSEQUENCES FOR SEED DISPERSAL
12:50 – 14:00	Lunch break		
14:00 – 14:30	20 MINUTE TALK + 10 MINUTES QUESTIONS	MAURO GALETTI	PLEISTOCENE MEGAFUNA EXTINCTIONS: FUNCTIONAL LOSS OF MUTUALISTIC SEED DISPERSAL SERVICES.
14:30 – 15:00	10 MINUTE TALK + 5 MINUTES QUESTIONS	MATHIAS M. PIRES	RECONSTRUCTING PAST ECOLOGICAL NETWORKS: THE RECONFIGURATION OF SEED-DISPERSAL INTERACTIONS AFTER MEGAFUNAL EXTINCTION
	10 MINUTE TALK + 5 MINUTES QUESTIONS	ELIZABETH S. JEFFERS	DIFFERENTIAL IMPACTS OF PLEISTOCENE MEGA-HERBIVORES ON NITROGEN AVAILABILITY

15:00 – 15:40	Coffee break		
15:40 – 16:10	20 MINUTE TALK + 10 MINUTES QUESTIONS	ADAM WOLF	LATERAL TRANSPORT OF NUTRIENTS BY HERBIVORES: LOCAL IMPACTS AND GLOBAL PERSPECTIVES
16:10 – 17:10	Panel Discussion		WHAT WERE THE MAJOR ECOLOGICAL IMPACTS OF THE PLEISTOCENE MEGAFUNA EXTINCTIONS?
	<i>The conference group moves to the Natural History Museum</i>		
18:00 – 19:00	A talk at Oxford's Natural History Museum by George Monbiot		SHOULD WE BRING BACK THE EUROPEAN MEGAFUNA?
19:30 ONWARDS	Dinner at the Natural History Museum <i>for ticket holders</i>		

Thursday 20 March 2014

Day 3: Megafauna and ecosystem function in the Anthropocene

09:00 – 9:30	20 MINUTE TALK + 10 MINUTES QUESTIONS	RODOLFO DIRZO	DIFFERENTIAL DEFAUNATION AND EXTINCTION OF ECOLOGICAL PROCESSES: CONSEQUENCES FOR ECOSYSTEMS AND HUMANS
09:30 – 10:00	20 MINUTE TALK + 10 MINUTES QUESTIONS	GREG ASNER	EFFECTS OF SOARING ELEPHANT NUMBERS ON SOUTH AFRICAN SAVANNA HABITATS
10:00 – 10:30	20 MINUTE TALK + 10 MINUTES QUESTIONS	JOHN TERBORGH	LOW TREE DIVERSITY OF CENTRAL AFRICAN FORESTS: ARTEFACT OF HISTORY OR PRODUCT OF FILTERING BY MEGAFUNA?
10:30 – 11:00	20 MINUTE TALK + 10 MINUTES QUESTIONS	CARLOS PERES	CONTEMPORARY LARGE VERTEBRATE DEFAUNATION MODULATES TROPICAL FOREST ECOSYSTEM SERVICES
11:00 – 11:20	Coffee break		

11:20 – 11:50	20 MINUTE TALK + 10 MINUTES QUESTIONS	FRANS VERA	30 YEARS OF REWILDING IN THE NETHERLANDS: THE IMPACT OF HERBIVORES ON CLOSED CANOPY FOREST
11:50 – 12:20	20 MINUTE TALK + 10 MINUTES QUESTIONS	SERGEY ZIMOV	LESSONS AND FUTURE PROSPECTS FROM A PLEISTOCENE REWILDING IN SIBERIA
12:20 – 12:50	20 MINUTE TALK + 10 MINUTES QUESTIONS	BETH SHAPIRO	THE SCIENCE OF SCIENCE FICTION: BRINGING BACK THE MAMMOTH
12:50 – 14:00	Lunch break		
14:00 – 14:30	20 MINUTE TALK + 10 MINUTES QUESTIONS	PAUL JEPSON	RE-WILDING VISIONS AND CONTROVERSY: UNSETTLING THE CONSERVATION REGIME
14:30 – 15:45	10 MINUTE TALK + 5 MINUTES QUESTIONS	FIONA MAISELS	MASSIVE LOSS OF FORESTS ELEPHANTS IN CENTRAL AFRICA
	10 MINUTE TALK + 5 MINUTES QUESTIONS	MEREDITH ROOT- BERNSTEIN	REWILDING: NINE KEY CHALLENGES
	10 MINUTE TALK + 5 MINUTES QUESTIONS	PIL PEDERSEN	THE REWILDING DEBATE IS NOT BASED ON EXPERIMENTS: A CRITICAL LOOK AT THE REWILDING DEBATE AND AN EXAMPLE OF ACTUAL REWILDING STATUS IN DENMARK
	10 MINUTE TALK + 5 MINUTES QUESTIONS	KEITH KIRBY	A ROLE FOR REWILDING IN ENGLISH NATURE CONSERVATION PRACTICE?
	10 MINUTE TALK + 5 MINUTES QUESTIONS	MAAN BARUA	THE POLITICS OF REWILDING AND REINTRODUCTION: THE LION AND THE CHEETAH IN INDIA
15:15 – 15:30	Coffee break		
15:30 – 16:00	20 MINUTE TALK + 10 MINUTES QUESTIONS	JOSH DONLAN	REWILDING IN A CRISIS DISCIPLINE
16:00 – 17:00	Panel Discussion		
17:00 – 19:30	Closing speech by David Macdonald: <i>‘Emerging thoughts on a past fit for the future’</i> followed by a drinks reception and poster display		
19:30	End of conference		