SPPC Presentation Schedule

Building 85, Life Sciences **Rm 2207**		**Chaired by** **Lu Allington-Jones,** Senior Conservator, Natural History Museum
10:00	Preserving both the tangible and intangible: manakitanga of six moa footprints	**Shannah Rhynard-Geil and Kane Fleury**
10:20	Combining mechanical, chemical, and virtual preparation techniques: a case study on Cretaceous shark teeth	**(Recorded Presentation)** **Kieran Miles,** Natural History Museum
10:40	Ammonite Amateurs: what happens when you do paleontological conservation without a paleontologist.	**(In person)** **Hannah Villines**
11:00	An Overview of Asphaltic Fossil Preparation and Conservation at La Brea Tar Pits	**(in person)** **Stephany Potze, Clarke, C.A. & Morley, S. L.,** La Brae Tar Pits Museum
11:20	**Tea/ coffee break and poster display in B85 Concourse.**	**(in person)**
11:50	Pliosaurus - The Discovery of a Monster	**Chris Moore and Steve Etches**
12:20	TBC	**(Recorded Presentation)** **Richard Forrest**
12:40	Further questions and discussion	**(in person)** **Chaired by** **Lu Allington-Jones,**
13:00	Closing remarks	
14:30	Avenue Campus for Tour of Archaeological laboratories	**Alison Gascoigne, Head of Archaeology Dept.**

SVPCA

WEDNESDAY PRESENTATION SCHEDULE

Building 32/ 1015	**Chaired by Neil Gostling**	
Logan King	Endocranial development in non-avian dinosaurs reveals an ontogenetic brain trajectory distinct from extant archosaurs.	**15.45**
Dino Chu	A Massive Broad-Snouted Early Miocene Crocodile from the Kutch of India: A Contender to Challenge the Supercroc?	**16:00**
Yuting Lin	Predictive simulations of musculoskeletal function and sit-to-stand in birds: insights for extinct vertebrate locomotion.	**16:15**
Judyth Sassoon	Palaeobloopers: Comparing two errors in marine reptile palaeontology.	**16:45**
Andrzej Wolniewicz	A new ichthyosaur from the Early Jurassic of the United Kingdom with implications for the taxonomy and phylogeny of Ichthyosauridae.	**16:30**

THURSDAY PRESENTATION SCHEDULE

Building 32 1015	**Chaired by Neil Gostling**	
Michael Benton	**KEYNOTE: Extinction: How Life Survives, Adapts, and Evolves**	**09:30**
Gabor Botfalvai	New dinosaur excavations in an iconic area of the Haţeg Basin (Romania): results of five years of recent geological and paleontological research in the Upper Cretaceous (Maastrichtian) of Vălioara Valley.	**10:00**
Cassius Morrison	Dietary partitioning revealed by dental microwear analysis suggests ecosystem structural shifts in the Late Cretaceous from ontogenetic shifts of faunivorous theropod dinosaurs.	**10:15**
Charlie Roger Scherer	Biogeographic analyses of megaraptoran theropods indicates that an Early Cretaceous Gondwanan distribution and vicariance drove megaraptorid diversification and the convergent evolution of tyrannosauroid gigantism.	**10.30**
Matthew Dempsey	Striding with stegosaurs - building an empirically grounded biomechanical model of an armoured dinosaur.	**10:45**

Building 32 1015	**Chaired by**	
Ricardo Araújo	Fossil vertebrate bonebeds and sites from the Carnian-Norian (Algarve, Portugal)	**11:40**
Robert Smyth	Catastrophic injuries in Solnhofen pterosaurs: preservational and palaeobiological implications	**11:45**
David Unwin	*Pterodactylus antiquus:* old specimens shine in a new light	**12:00**
Benton Walters	Morphospace Testing of Published Pterosaur Depictions: Are Pterosaur Reconstructions Fit to Fly?	**12:15**

Building 32 1015	**Chaired by**	
Joe Thompson	Changes in Micro-Vertebrate Assemblages and Taphonomy throughout the Late Eocene Succession at Hordle Cliff	**13:30**
Sophie Boerman	Black sheep of the eusuchian family tree:"thoracosaurs", a reappraisal of their fossil record and phylogeny	**13:35**
Paul Burke	New anatomical evidence provides support for transoceanic dispersal capability in extinct gavialoid crocodylians	**13:50**
Samuel Cooper	Rise of the toothless leviathans: unravelling the origins of 'suspension-feeding' in pachycormid fishes	**14:05**
Jonathan Cox	Olfaction in a Extant Jawless Fish	**14:20**
Hady George	Investigating the biomechanical diversity of salamander mandibles to inform on feeding evolution in the fish-tetrapod transition.	**14:35**
Hugo Dutel	Comparative anatomy and biomechanics of the feeding apparatus of extant lungfishes	**14:50**

Building 32 1015	**Chaired by**	
Robert Asher	One bone can do it: predicting phylogenetic resolution of an uncertain node (Chrysochloridae, Afrotheria)	**15:30** **ONLINE**
Alyx Elder	Describing the musculature of harbor seal mystacial pads using diceCT	**15:45**
Robyn Grant	Using finite element analysis to explore how whisker shape effects bending in three species of Carnivora	**16:00**
Thomas Kirkwood	Endocranial Shape Variation in Extant Caniforms (Carnivora): The Impact of Social and Ecological Factors on Brain Morphology	**16:15**
Julien van der Hoek	Body mass evolution in terrestrial carnivores and artiodactyls: climatic change and coevolution in competing clades?	**16:30**

Richard Butler	Determining the relative scientific and cultural “value” of the UK’s in-situ dinosaur track sites	**16:45**

FRIDAY PRESENTATION SCHEDULE

Building 32 1015	**Chaired by**	
Federica Spani	Evolutionary patterns and biological significance of genital bones in mammals: from primitive structures to specialized forms.	**09:30**
Mate Szegszardi	The reassignment of the Late Cretaceous mesoucrocodylian Doratodon carcharidens to Neosuchia, and its paleobiogeographical implications.	**09:50**
Ben Thomas	Skeletal correlates for deep-diving behaviour in Ichthyosauria (Reptilia, Ichthyopterygia).	**10:05**
Chris Barker	Theropod dinosaur diversity of the lower English Wealden: analysis of a tooth-based fauna from the Wadhurst Clay Formation (Lower Cretaceous: Valanginian).	**10:20**
Jan Silva	Exploring function of early dinosaur tooth morphologies through comparative computational and physical mechanical tests.	**10:35**
Samuel Cross	Jumping through the hoop of model validation.	**10:50**

Building 32 1015	**Chaired by**	
Livia Roese-Miron	The biomechanical role of pneumatization in South American Late Triassic traversodontids (Cynodontia, Cynognathia)	**11:40**
Michael Howgate	The problem of the persistently missing Theropod clavicle for the dinosaur to bird evolutionary link.	**11:45**
Megan Jacobs	A study on the dinosaur gastroliths of the Early Cretaceous Wessex Formation, Isle of Wight, UK.	**12:00**
Jacob Gardner	The costs of bipedal locomotion through time in hominins	**12:15**
Niels Bonde	The brutal taphonomy of a well-preserved bird from the Early Eocene Mo-clay of Denmark.	**12:30** **ONLINE**

Building 32 1015	**Chaired by**	
Maximilien Dereme	The rich mid-Bathonian microvertebrate fauna from Hornsleasow Quarry, Gloucestershire, UK	**13:30**
Zak Lewis	Vertebrate Body Size Evolution after the Permo-Triassic Mass Extinction	**13:35**
Nathan Winterbone	The evolutionary biomechanics of the vertebral column in Crocodylomorpha	**13:50**
Marton Rabi	Expanded phylogeny sheds light on the origin of alligatoroids and elucidates the systematic affinities and gigantism of the 'terror crocodile' *Deinosuchus.*	**14:05**
Luke Muscutt	Mysteries of the Mesozoic Seas: An Initial Review of Marine Reptile Locomotion	**14:20**
Donald Henderson	Lost, hidden, broken, cut - estimating and interpreting the shapes and masses of damaged assemblages of plesiosaur gastroliths.	**14:35**

Building 32 1015	**Chaired by Neil Gostling**	
Davis Laundon	TBC	**15:30**
Darren Naish	Tackling Contrarians and the Case of Too Big to Walk	**16:00**
Neil Gostling	ECR Prizes (Poster and Presentation)	**16:30**
	Closing Remarks	