SVPCA

2015

63rd Symposium on Vertebrate Palaeontology and Comparative Anatomy

24TH SYMPOSIUM OF Palaeontological Preparation and Conservation with the Geological Curators' Group

SOUTHAMPTON

(OCEAN AND EARTH SCIENCES, NATIONAL OCEANOGRAPHY CENTRE): 31st August to 4th September 2015

FINAL CIRCULAR AND SCHEDULE

The SVPCA and SPPC/GCG meetings are now less than a month away, and we hope you're all looking forward to it as much as we are in Southampton. This circular will provide, we hope, the rest of the information you will need for the conference. If you have any questions that aren't answered by this circular, then please contact the organisers via email: <u>southampton2015@svpca.org</u> or <u>gareth.dyke@</u> <u>soton.ac.uk</u>

REGISTRATION

Abstract submission is now closed, but registration for SPPC/GCG and SVPCA will remain open until **August 14 at 5 PM (BST)**. Due to NOC security reasons, we must enforce this deadline and will not accept any registrations after this. Delegates will not be permitted to arrive on the day without being registered in advance as we need to process security/conference badges and follow security procedures. This means that guests will not be permitted for any of the events **unless they have registered**.

DOCK SECURITY AND ENTERING NOC

Because the National Oceanography Centre is inside an active port area and subject to strict security regulations, all delegates **must** wear their conference badges at all times (this is critical, especially when entering Dock Gate 4 and entering the NOC building itself).

The only access (either by car, bus or foot) is through Dock Gate 4 (see map below). When approaching dock security, you may be stopped by security guards at the Dock Gate. Inform them that you are heading to SPPC/GCG/SVPCA conference at the National Oceanography Centre. You may be asked for some form of ID, so we recommend carrying identification at all times. If possible, avoid wearing hats and/or sunglasses as they may ask you to remove them to check your ID. We will be informing security of the conference, and will also provide them with a delegate list in case they want to check people against the list. If further problems occur, call Gareth Dyke (+44 7837 963628), Liz Martin-Silverstone (+44 7845 547867) or Jessica Lawrence Wujek (+44 0745 4911626).

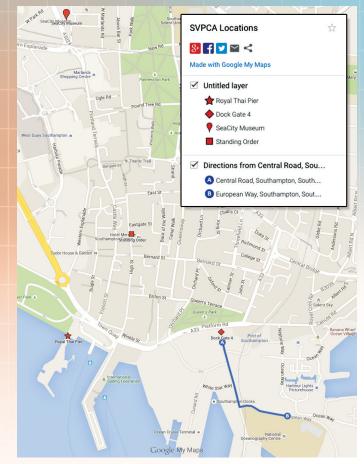
Once you have entered the Dock Gate, you will take the **second left** (go straight -through the roundabout, then take the next left), taking you over a train track. There will be signs for the National Oceanography Centre main entrance. Take the first right into the NOC parking lot. Enter the revolving doors, and head straight up the stairs to the top (4th floor) where you will see the registration desk. We will have signs posted and volunteers around to help if you get lost.

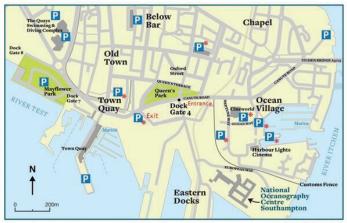
WHERE IS THE NOC?

Directions to NOC Southampton can be accessed via this link: <u>http://noc.ac.uk/about-us/maps-directions/</u> <u>southampton-centre</u> (for further detailed information, see below)

WHERE CAN I PARK?

Very limited remaining parking spaces are available at the NOC for SPPC/SVPCA (for day times only – no overnight parking is possible). If you would like to reserve one of the few remaining spaces, please email Gareth Dyke (gareth.dyke@soton.ac.uk) ASAP.





The only pedestrian access to NOCS is through Dock Gate 4 * Approx 10-15 mins v

Our recommended alternative parking option close to the NOC (2-5 minutes walking) is at Ocean Village: <u>http://www.oceanvillagesouthampton.com/visit/getting-here/</u> Parking here is just £1 per hour.

NB: Throughout Southampton on street meter-paid parking is available (you must pay 0800-1800 with an additional over-night charge applicable).

Other Important Information

There are a number of restaurants, cafés, pubs, and shops nearby for lunch, whatever you fancy. We recommend going to Ocean Village (Admiral Sir Lucius Curtis Wetherspoons pub, Pitcher and Piano, Maritimo Lounge, and more) or Oxford Street (Chimi Changa, Casa Brazil, Cargo Lounge, White Star Inn, etc.) within a 10-15 minute walk from NOC. Slightly further away is High Street, where there is a Co-op, and Tesco for shops, and more cafés and restaurants. The Standing Order (Wetherspoons Pub) on High Street is a large pub that has been designated as our main evening point as it will accommodate a number of people, especially for Tuesday, Sept. 1, a free night.

Central Southampton map (<u>http://www.discoversouthampton.co.uk/visit</u>) Food and drink (<u>http://www.discoversouthampton.co.uk/visit/food-drink</u>)

We've got some great material already for the auction including two brand new books from Siri Scientific Press, lots of other books, palaeoart, clothing, and more. Of course, other material for the auction are much appreciated. If you have a donation, or wish to discuss making a donation to this event (to raise money for the Jones-Fenleigh Fund) then please email the auction co-ordinator Liz Martin (<u>e.g.martin@soton.ac.uk</u>)

For the first time, SVPCA will be joined by Palaeocast for a few days. Talks will not be live streamed, but Palaeocast will be interviewing delegates and presenters on their research. If you are interested in taking part, look for Palaeocast (particularly Dave Marshall) during the conference. It's a great way to feature research being done and talk about your work.

SVPCA 2015 encourages social media use throughout the conference. We are adopting the policy set forth by SVP, whereby speakers must inform the audience if they **do not** want their talks to be shared on social media (i.e. live tweeting). We encourage delegates who are concerned about this to contact us and we can advise on the topic. We would like to request that attendees should do this respectfully: no photographs of slides, or posters without permission please, and please do not post details of an entire talk that has not been published yet.

Posters and Talks

Delegates should bring their talks on a memory stick or something similar. In the break before their time slot, they can check-in and deposit their talks in the seminar room next door to the lecture theatre.

Space is available for the constant display of posters throughout SVPCA (starting at the Welcome Reception). We prefer portrait A1 format, but any size/shape can be accommodated. Abstract submission for posters should be made via the booking site and SVPCA site in the normal way.

Additional information between now and the conference will be posted on our twitter account (@ sotonvertpalaeo, and #SVPCA2015), and the SVPCA 2015 Southampton Facebook page.: <u>https://www.facebook.com/events/953708917972975/</u>

The SPPC/SVPCA organising committee would like to thank the Palaeontological Association (<u>www.palass.</u> <u>org</u>), the Geological Curators Group (<u>www.geocurator.org</u>), Siri Scientific Press (<u>www.siriscientificpress.co.uk</u>) and Palaeocast (<u>www.palaeocast.com</u>) for their support of this conference.

Looking forward to welcoming you to Southampton! The SPPC/SVPCA organising committee









MEETING SCHEDULE

Monday 31st August

9:00-9:45	SPPC/GCG registration at NOC Security desk (4th floor)
	Session — SPPC Chair — Mark Young
10:00-10:20	Mark Graham Image: Comparing the second se
10:20-10:40	Emma Bernard A brief history of the best collection of fossil fish in the world – probably
10:40-11:00	Jeff Liston <i>et al.</i> Leviathan Rising: A new collections curation initiative from the Star Pit dig
11:00-11:20	Luke Hauser Breaking badbone beds: processing the Downton Bone Bed
11:20-11:40	Frank Ösbæck Preparation of a uniquely preserved turtle from the early Eocene Mo clay formation of northern
11:40-12:00	Denmark Donald Henderson
11.10 12.00	Moulding dinosaur tracks on the banks of the St. Mary River in southwestern Alberta, Canada
12:00-14:00	Lunch
14:00-18:00	SPPC/GCG trip to Hampshire County Council collections, arriving back at NOC before the 18:00 Icebreaker Reception.
18:00-21:00	Icebreaker Reception and Registration National Oceanography Centre Seminar Room
Tuesday 1 st S	September
8:10-8:45	SVPCA registration at NOC Security desk (4 th floor)
8:45-9.00	Welcome by Dr Gareth Dyke
9:00-9:15	Session — Pterosaurs & Dinosaurs Chair — Manabu Sakamoto Alexander Kellner <i>et al.</i> Comments on pterosaur reproduction based on recently found specimens from the Jurassic and Cretaceous of China
9:15-9:30	Colin Palmer & Michael Habib Giants of the air: how big could they be?
9:30-9:45	David Unwin & D. Charles Deeming New evidence for sexual dimorphism in the basal monofenestratan pterosaur <i>Darwinopterus</i>
9:45-10:00	Darren Naish <i>et al</i> .
10:00-10:15	Romania and the short-necked azhdarchids, flightless avialans and giant lizards of yore Cindy Howells <i>et al.</i>
10:15-10:30	A new Early Jurassic theropod from Wales: geological and discovery context David Martill <i>et al.</i> The oldest Jurassic dinosaur: a basal neotheropod from the Hettangian of Great Britain

	Session — Dinosaurs Chair — David Martill
11:00-11:15	Daniel Vidal <i>et al.</i>
11.00-11.19	The specialized tail of <i>Spinophorosaurus nigerensis</i> (Sauropoda. Middle Jurassic) and the
	osteological limits on its range of motion
11:15-11:30	Michael Taylor <i>et al.</i>
	Were the necks of Apatosaurus and Brontosaurus adapted for combat?
11:30-11:45	Craig Fraser
	The first comprehensive insight into the histology of the basal ornithopod, Hypsilophodon foxii,
	from the Isle of Wight
11:45-12:00	Stuart Pond et al.
	A critical new <i>Polacanthus</i> specimen from the Wessex Formation of the Isle of Wight
12:00-12:15	David Hone et al.
10.15.10.00	Positive allometry in the growth of a ceratopsian frill indicates sexual selection
12:15-12:30	Manabu Sakamoto <i>et al.</i>
	Dinosaurs in decline tens of millions of years prior to the K-Pg boundary
12:30-14:00	Lunch
12.30-14.00	
	Session — Mummies & Birds
	<i>Chair</i> — Ursula Göhlich
14:00-14:15	Diane Johnson <i>et al.</i>
	Fossils of Qau el-Kebir; an ancient Egyptian funerary fossil collection
14:15-14:30	Niels Bonde
	On some feathers of Archaeopteryx lithographica and their preservation
14:30-14:45	Eric Buffetaut & Delphine Angst
	Twenty years of Gargantuavis philoinos: a summing up on an enigmatic Late Cretaceous giant
1 / / 5 1 5 0 0	bird
14:45-15:00	Vincent Beyrand <i>et al.</i>
15.00 15.15	Endocast shape in birds linked with behaviour and flight ability Rechal Frigat
15:00-15:15	Rachel Frigot A geometric morphometric examination of form and function in the avian pelvis
	A geometrie morphometrie examination of form and function in the avian pervis
15:15-15:45	Afternoon coffee break
	<i>Session — Birds</i> <i>Chair —</i> Eric Buffetaut
15:45-16:00	Estelle Bourdon <i>et al.</i>
19.19-10.00	An exquisitely preserved stem roller (Aves: Coracii) from the Early Eocene Fur Formation of
	Denmark
16:00-16:15	Ursula Göhlich <i>et al.</i>
-	The penguin with an Albatross-like bill: anatomy of Spheniscus urbinai (Aves, Spheniscidae) from
	the Mio-Pliocene Pisco Formation in Peru
16:15-16:30	Nicholas Chan
	Complex evolution of avian leg bones with loss of flight
16:30-16:45	Ryan Felice & Patrick O'Connor
	Insights into the evolution of the avian tail apparatus from passeriform comparative anatomy
16:45-17:00	James Hansford
	To kill an elephant bird: Diversity and extinction in the Aepyornithidae

Free evening - Space reserved at The Standing Order (Wetherspoons pub) at High Street for those interested.

Wednesday 2nd September

8:10-9:00	SVPCA registration at NOC Security desk (4 th floor)
	Session —Basal tetrapods & gnathostome evolution
	Chair — John Clarke
9:00-9:15	Marco Castiello & Martin Brazeau
	The braincase of the petalichthyid <i>Shearsbyaspis</i> revealed by x-ray micro-CT: implications for
	deep gnathostome phylogeny
9:15-9:30	Timothy Smithson & Jennifer Clack
	A wandering entepicondylar foramen and the humeral twist: forelimb evolution in early
	tetrapods A wandering entepicondylar foramen and the humeral twist: forelimb evolution in
0.20 0.45	early tetrapods
9:30-9:45	Jennifer Clack <i>et al.</i> A new lower jaw from the Late Devonian and its possible relationships
9:45-10:00	Eduardo Ascarrunz <i>et al.</i>
9.19-10.00	A deeper look into Triadobatrachus massinoti: The earliest known lissamphibian (Vertebrata:
	<i>Tetrapoda</i>) re-examined by μ CT-Scan
10:00-10:15	Jennifer Hill <i>et al.</i>
	Evolution of the lower jaw of gnathostomes
10:15-10:30	Benjamin Otoo <i>et al.</i>
	A taxonomic and palaeoecological investigation of an earliest Carboniferous fauna from
	Burnmouth, Scotland, UK
10:30-11:00	Morning coffee break
	Session — Taphonomy, trackways
11:00-11:15	Donald Henderson
	Exceptional sets of dinosaur tracks and trackways from the St. Mary River Formation
	(Campanian-Maastrichtian) in Alberta, Canada
11:15-11:30	Mark Purnell et al.
	Experimental taphonomy and the anatomy of Cambrian vertebrates
11:30-11:45	Peter Falkingham
11.45 12.00	Difficulties in estimating mass from fossil footprints
11:45-12:00	Kent Stevens <i>et al.</i> Data-driven analysis and interpretation of fossil trackways
12:00-12:15	Luke Hauser
12.00 12.19	The Downton "Tooth Bed": a lost world
12:15-13:30	Lunch
	Session — Crocodylomorphs and Gekkos
	<i>Chair</i> — Gareth Dyke
13:30-13:45	Mark Young <i>et al.</i>
	An early origin and diversification of macrophagous metriorhynchid crocodylomorphs, with
	evidence for multiple instances of parallel evolution
13:45-14:00	Davide Foffa et al.
14.00 14.15	Evidence of macrophagous teleosaurids in the Corallian Group (Oxfordian, Late Jurassic) of the
	UK Thomas Smith & Mark Young
14:00-14:15	Thomas Smith & Mark Young The phylogenetic implications of re-describing the English crocodyliform specimens referred to
	Pholidosaurus

14:15-14:30	Max Stockdale <i>et al.</i>
	Temperature-driven evolution and evolutionary stasis among the Crocodylomorpha
14:30-14:45	Andrea Villa
	A review of fossil gekkotans from the Neogene and Quaternary of Italy
14:45-15:45	Afternoon coffee break / Poster Session (I)
	Session — Phylogenetics & palaeoart
	Chair — Darren Naish
15:45-16:00	Joanna Baker <i>et al.</i>
	Positive phenotypic selection inferred from phylogenies
16:00-16:15	Neil Brocklehurst
	Rates and modes of body size evolution in early carnivores and herbivores: a case study from
	Captorhinidae Captorhinidae
16:15-16:30	Maren Jansen <i>et al.</i>
	The phylogenetic inference of cranial ontogenetic trajectories of basal Therapsida
16:30-16:45	Michael Benton et al.
	Key characters and evolutionary rates in the origin of birds
16:45-17:00	Mark Witton <i>et al</i> .
	Trends and patterns in modern palaeoartistry: a call for change
18:00-21:00	Annual Auction and Reception
	SeaCity Museum, Southampton
Thursday 3	rd September

8:10-9:00	SVPCA registration at NOC Security desk (4 th floor)
	Session — Mammals (I)
	<i>Chair</i> — Christine Janis
9:00-9:15	Elsa Panciroli <i>et al</i> .
	Correlates between calcaneal morphology and locomotion in extant and extinct carnivorous mammals
9:15-9:30	Jamie MacLaren & Sandra Nauwelaerts
	Locomotor morphology of a 'living fossil' - 3D GMM assessment of forelimb anatomy in tapirs
9:30-9:45	Marcela Randau <i>et al.</i>
	Vertebral column shape evolution in felids
9:45-10:00	Chris Basu et al.
	Estimating body mass of the extinct giraffid Sivatherium giganteum, using a skeletal
	reconstruction and the minimum convex hull method
10:00-10:15	Gertrud Rössner <i>et al</i> .
	Evolutionary evaluation of fundamental processes in the antler cycle as revealed by internal bone
	structure
10:15-10:30	Roger Close et al.
	Evidence for a mid-Jurassic adaptive radiation in mammals

10:30-11:00 Morning coffee break

	Session — Mammals (II)
	Chair — Roger Close
11:00-11:15	Andrew McIntosh & Philip Cox
	Musculoskeletal correlates of digging behaviour in African mole-rats
11:15-11:30	Philip Morris et al.
	Morphological convergence of the rodent-like masticatory apparatus in extant rodents and non-
	rodent diprotodonts
11:30-11:45	Christine Janis et al.
	On the probable predatory behaviour of the "marsupial lion", <i>Thylacoleo carnifex</i>
11:45-12:00	Elis Newham et al.
12 00 10 15	Cementum histology reveals physiology at the root of the mammalian phylogeny
12:00-12:15	Ian Corfe <i>et al.</i>
	Tooth ultrastructure and development of a 200 million year old mammal revealed with
	synchroton nanotomography
12:15-13:30	Lunch
12119 10100	
	Session — Teeth & Fish
	<i>Chair</i> — Ian Corfe
13:30-13:45	Robert Goodall & Mark Purnell
	How the whale became: 3D tooth microtextures shed light on the complex dietary transition in
	archaeocete whale evolution (Cetacea: Archaeoceti)
13:45-14:00	Robert Asher
	Pearly white & full of information: why we should all love teeth
14:00-14:15	Hermione Beckett & Matt Friedman
	Revisiting Landanichthys, the oldest fossil mackerel?
14:15-14:30	John Clarke & Matt Friedman
1/ 20 1/ /5	The 100 million year struggle to teleost supremacy
14:30-14:45	Jeff Liston <i>et al.</i>
	Back from Purgatory: Three Rakers for Fishes at the Base of a Diversification
14:45-15:45	Afternoon coffee break / Poster Session (II)
	Session — Mesozoic reptiles
15:45-16:00	<i>Chair</i> — David Unwin Saulo Limaverde <i>et al.</i>
1):4)-10:00	Preliminary information on a new specimen of <i>Araripemys</i> (Pleurodira: Pelomedusoides) from the
	Early Cretaceous Crato Formation, Brazil
16:00-16:15	Tom Stubbs
10.00 10.19	The ecomorphological diversifications of Mesozoic marine reptiles
16:15-16:30	Jessica Lawrence Wujek <i>et al.</i>
	Mary Anning's marine reptiles: taxonomy, systematics, morphometrics and evolution of the
	iconic Ichthyosaurus
16:30-16:45	Luke Muscutt et al.
	The hydrodynamics of plesiosaurs
16:45-17:00	Nick Longrich et al.
	Tetrapodophis amplectus, a four-legged snake from the Early Cretaceous of Gondwana, and
	implications for the origins of snakes
19:00-22:00	Conference Dinner

Royal Thai Pier, Southampton

Southampton



National Oceanography Centre NATURAL ENVIRONMENT RESEARCH COUNCIL