



THE 7TH INTERNATIONAL PALAEONTOLOGICAL CONGRESS

30 November – 3 December 2026 · Cape Town, South Africa

PROGRAMME

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LOCAL ORGANISING COMMITTEE

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University of Cape Town

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University of the Witwatersrand

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IPA International Palaeontological Association

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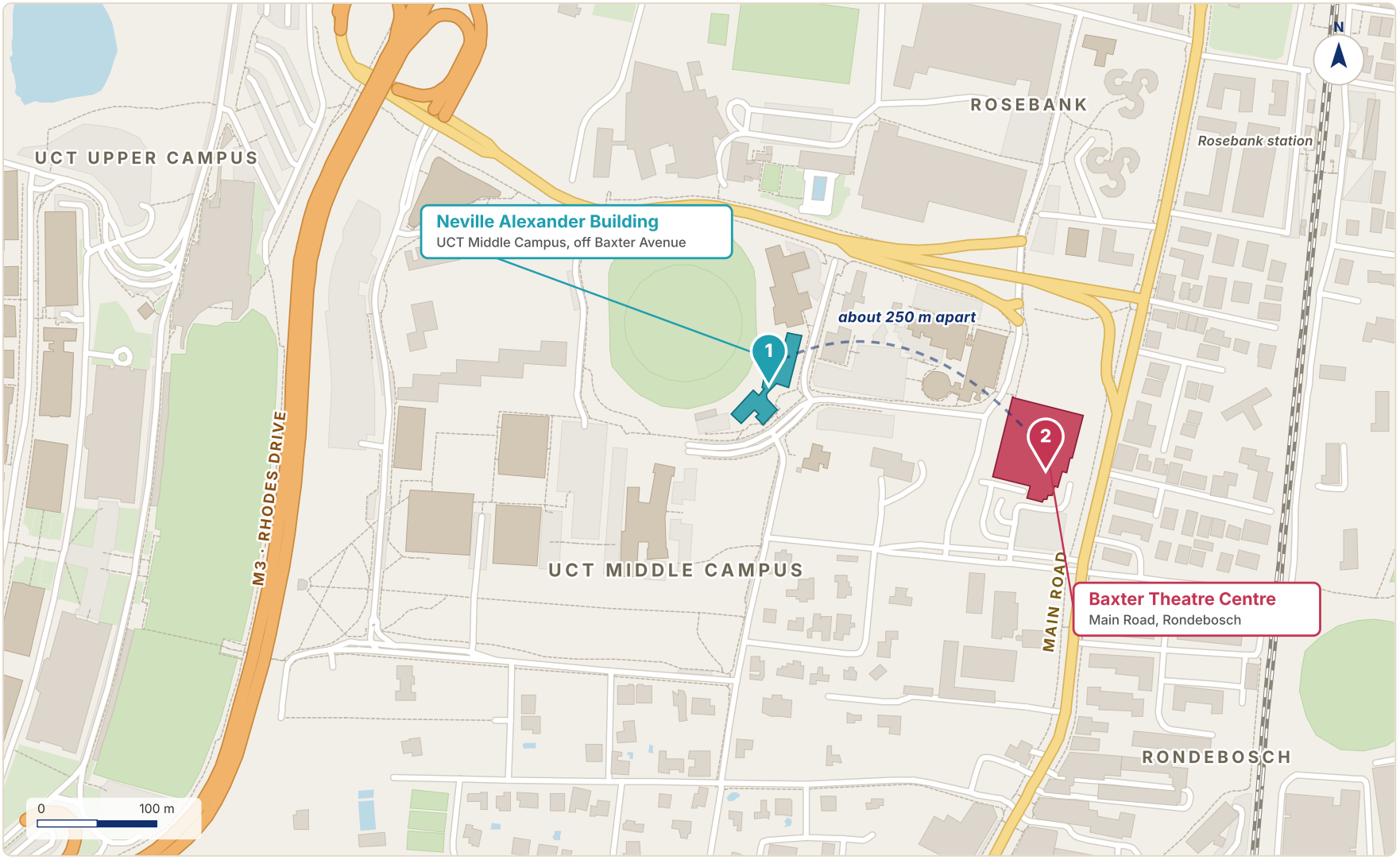
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CONGRESS VENUES



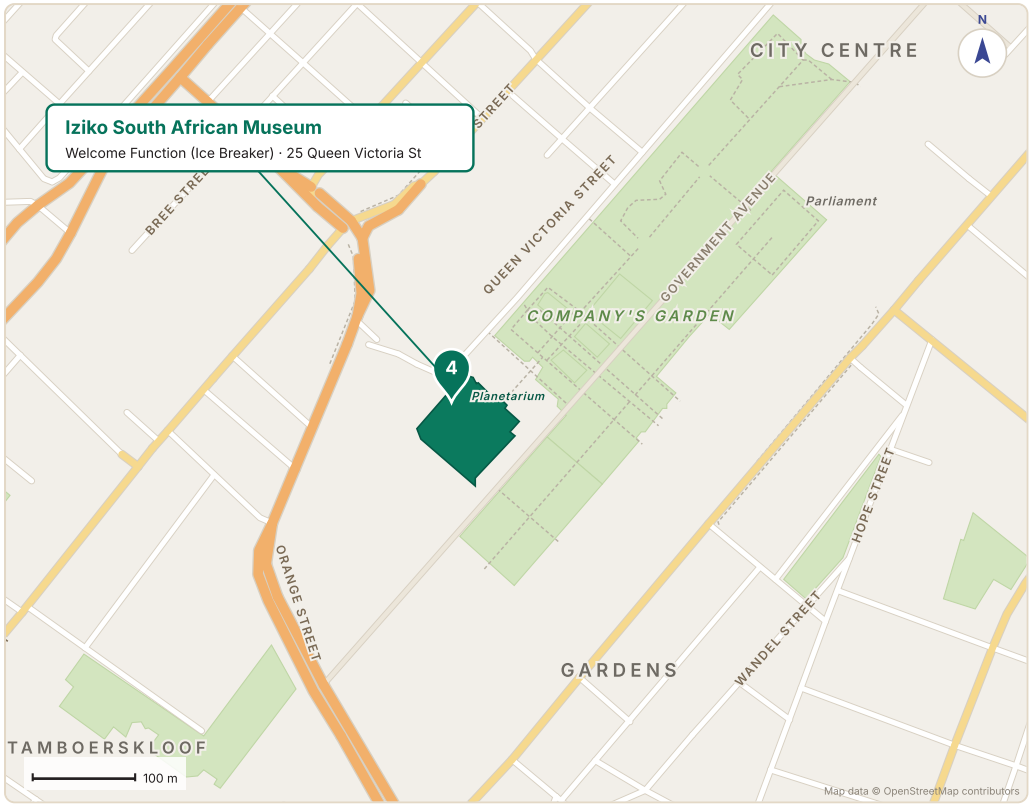
1 **Neville Alexander Building (NAB)**
UCT Middle Campus, just up the road from the Baxter. Parallel sessions in the NAB Auditorium (LT1), rooms 2A–2E and 4A–4D, and Studios 1 and 2.

2 **Baxter Theatre Centre**
Main Road, Rondebosch. All plenaries are in the Concert Hall; Theme 5 sessions are in the Pam Golding Theatre; other sessions as listed in the programme.

The two venues are about 250 m apart, a few minutes' walk.

SOCIAL EVENT VENUES

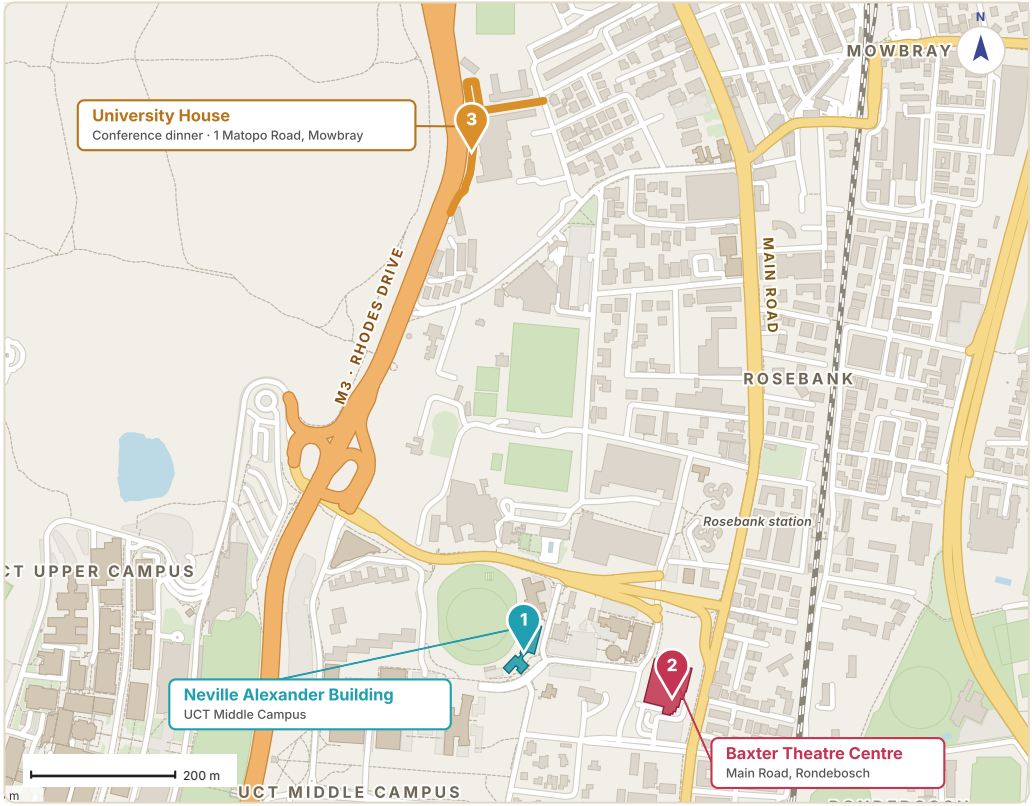
WELCOME FUNCTION (ICE BREAKER) | SUN 29 NOV 2026 · 18:30



4 Iziko South African Museum
25 Queen Victoria Street, Gardens, Cape Town, 8001 (at the top of the Company's Garden).
Welcome Function (Ice Breaker), Sunday 29 November 2026, from 18:30.

In the city centre, about 6 km from the Baxter (straight-line distance).

CONFERENCE DINNER | THU 3 DEC 2026 · 18:30



3 University House
1 Matopo Road, Mowbray, Cape Town, 7700.
Conference Dinner, Thursday 3 December 2026, from 18:30.

About 0.9 km north of the Baxter (straight-line distance). Venues 1 (NAB) and 2 (Baxter) shown for reference.

PROGRAMME AT A GLANCE

Daily rhythm: registration from 08:00 (07:30 on Day 1), plenary 08:45–09:30, parallel sessions 09:45–13:00 and 14:00–17:00 with coffee at 11:00 and 15:30, lunch 13:00–14:00. Numbers after speaker names are abstract (paper) numbers; full talk titles are given under each speaker.

DAY 1

Monday, 30 Nov 2026

4 blocks of up to 8 parallel sessions

08:30–08:45
Opening session

08:45–09:30
Plenary: Kristina Curry Rogers · Baxter Concert Hall

17:00–17:45
Plenary: Marion Bamford · Baxter Concert Hall

17:45–18:45
Poster session 1

DAY 2

Tuesday, 1 Dec 2026

4 blocks of up to 8 parallel sessions

08:45–09:30
Plenary: Paul Barrett · Baxter Concert Hall

17:00–17:45
Plenary: Christian Kammerer · Baxter Concert Hall

17:45–18:30
Poster session 2

18:30–19:30
IPA Ordinary General Meeting · Baxter Concert Hall

20:00
IPA Council meeting · NAB Studio 2

DAY 3

Wednesday, 2 Dec 2026

2 blocks of up to 8 parallel sessions

08:45–09:30
Plenary: Jasmina Wiemann · Baxter Concert Hall

Symposium 21: Communicating palaeosciences (afternoon)

17:10–17:15
Marina Joubert Closing

17:15–17:30
Poster session (Theme 21 – Communicating palaeosciences only)

18:00–20:00
Communicating palaeontology (Workshop) focus group

DAY 4

Thursday, 3 Dec 2026

4 blocks of up to 9 parallel sessions

08:45–09:30
Plenary: Gabriela Mángano · Baxter Concert Hall

16:45–17:15
Poster session 3

17:15–17:30
Closing · Baxter Concert Hall

18:30
Conference Dinner · University House (see map)

EXHIBITION **Palaeoartists Exhibition** · Baxter Theatre Centre · on show throughout the congress, Monday 30 Nov – Thursday 3 Dec

BEFORE THE CONGRESS

24–29 November 2026

24–28 Nov	FIELDTRIP	PRE001 Triassic–Jurassic boundary in southern Africa
25–28 Nov	FIELDTRIP	PRE002 Cederberg: Cape Supergroup
28 Nov, 09:00–13:00	WORKSHOP	Sketching Palaeoart, Iziko South African Museum
29 Nov, 08:30–17:00	FIELDTRIP	PRE003 West Coast Fossil Park day trip
29 Nov, 18:30	EVENT	Welcome Function (Ice Breaker), Iziko South African Museum

AFTER THE CONGRESS

4–12 December 2026

4–9 Dec	FIELDTRIP	POST001 Devonian Ecosystems
4–12 Dec	FIELDTRIP	POST002 Karoo Transect
7–9 Dec	WORKSHOP	Fossil Preparation, Iziko South African Museum

All fieldtrips are fully booked. Details of workshops and fieldtrips are on pages 33–35.

VENUES AT A GLANCE

Where each theme runs, by day and half-day. Numbers are theme (symposium) numbers; full session details and exact times are in the daily programme.

		DAY 1 Mon 30 Nov		DAY 2 Tue 1 Dec		DAY 3 Wed 2 Dec		DAY 4 Thu 3 Dec	
		MORNING	AFTERNOON	MORNING	AFTERNOON	MORNING	AFTERNOON	MORNING	AFTERNOON
BAXTER	Concert Hall	19 Histology of mineralised tissues	19 Histology of mineralised tissues	19 Histology of mineralised tissues 16 Pangea in crisis from 12:15	16 Pangea in crisis		21 Communicating palaeosciences 14:00–17:15	16 Pangea in crisis	16 Pangea in crisis
BAXTER	Pam Golding Theatre	5 Life in the Phanerozoic Oceans	5 Life in the Phanerozoic Oceans	5 Life in the Phanerozoic Oceans	5 Life in the Phanerozoic Oceans	5 Life in the Phanerozoic Oceans		5 Life in the Phanerozoic Oceans	
BAXTER	Rehearsal Room	12 Vertebrate taphonomy	12 Vertebrate taphonomy	10 Devonian of Gondwana	10 Devonian of Gondwana	10 Devonian of Gondwana	W Workshop: Communicating palaeontology (focus group) 18:00–20:00	30 General: Mesozoic dinosaurs, pterosaurs	30 General: Mesozoic dinosaurs, pterosaurs
NAB	Auditorium (LT1)	2 Paleoneurology	2 Paleoneurology	14 Triassic & Early Jurassic dinosaurs	14 Triassic & Early Jurassic dinosaurs	4 Mongolian Cretaceous		4 Mongolian Cretaceous from 12:30	4 Mongolian Cretaceous
NAB	2A	8 Biogeography	8 Biogeography	30 General: Other reptiles	27 Brain & cranial evolution from 14:45	27 Brain & cranial evolution			R Workshop: R for Paleobiologists
NAB	2B		17 Dinosaur eggs & reproduction	15 Paleobionics	15 Paleobionics	28 Bridging the molecular gap		24 Neogene primates & Hominidae	24 Neogene primates & Hominidae
NAB	2E	26 Vegetation & plant–insect interaction				30 General: Arthropods & Insects		13 Ichthyosaurs	13 Ichthyosaurs
NAB	4A	23 Cenozoic vertebrates of Africa	23 Cenozoic vertebrates of Africa	7 Ichnology (Invertebrates)	7 Ichnology (Invertebrates) until 14:45 23 Cenozoic vertebrates of Africa from 16:00			1 Ordovician–Silurian biotic events	1 Ordovician–Silurian biotic events
NAB	4D			30 General: Methods	11 Early Palaeozoic Biodiversification	25 Freshwater palaeoecosystems		30 General: Mammals	30 General session
NAB	Studio 1			6 The Precambrian from 12:30	6 The Precambrian	18 Pathologies			30 General: Invertebrates
NAB	Studio 2	20 Flight evolution	20 Flight evolution					7 Ichnology (Vertebrates)	

Opening session · Mon 08:30 · Baxter Concert Hall **Plenaries** daily · Baxter Concert Hall **Closing** · Thu 17:15 · Baxter Concert Hall **Posters, coffee & lunch boxes** · Baxter (coffee also at NAB) **IPA Ordinary General Meeting** · Tue 18:30 · Concert Hall

IPA Council · Tue 20:00 · NAB Studio 2 **Palaeoartists Exhibition** · Baxter, all four days no session

DAY 1 MONDAY, 30 NOVEMBER 2026

07:30–08:30 **Registration** Baxter Theatre Centre

08:30–08:45 **Opening session** Baxter Concert Hall

08:45–09:30 PLENARY **Kristina Curry Rogers** Baxter Concert Hall

Big Insights from Tiny Bones: Ontogeny, Life History, and Paleobiology of the Titanosaurian Sauropod Rapetosaurus

09:45–11:00 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE 5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB 2A 8 Biogeography: ranging through a dynamic Earth Chairs: Cameron Penn-Clarke & Cole Naamdhew	PARALLEL 3 · NAB 2E 26 Vegetation change and plant-insect interaction from the Palaeozoic until modern times - Case studies from Africa and beyond Chairs: Frank Neumann, Estelle Razanatsoa, Moteng Moseri & Jemma Finch	PARALLEL 4 · BAXTER REHEARSAL ROOM 12 Recent advances in vertebrate taphonomy Chairs: Roger Smith & Anna K. Behrensmeyer	PARALLEL 5 · NAB AUDITORIUM (LT1) 2 Paleoneurology, cognition, and behaviour of vertebrates, from fish to hominins Chairs: Julien Benoit & Amelie Beaudet	PARALLEL 6 · NAB 4A 23 Cenozoic vertebrates of Africa Chairs: Alberto Valenciano & Adam Hartstone-Rose	PARALLEL 7 · BAXTER CONCERT HALL 19 Advances in the histology of the mineralised tissues of vertebrates Chairs: Carmen Nacarino-Meneses & German Montoya-Sanhueza	PARALLEL 8 · NAB STUDIO 2 20 Flight evolution in vertebrates Chairs: Michael Pittman & Thomas Dececchi
09:45–10:00	09:45–10:15 KEYNOTE ***Farid Saleh*** 740 The rise of animal life in the Palaeozoic: insights from laboratory decay experiments	***Eileen Straube*** 370 Understanding Extinction Risk: Traits, Range Loss, and Changing Climates	***Beau Jones*** 312 The sensory toolkit of the earliest terrestrial predator, *Palaeocharinus* (Trignotarbida, Arachnida, Arthropoda), from the Rhynie cherts (407 Ma)	09:45–10:15 KEYNOTE ***Anna Behrensmeyer*** 142 Perspectives on Taphonomy - Past, Present and Future	***Aatreyee Saha*** 48 Neuroanatomical evolution in early Sirenia (Mammalia): Insights from digital endocasts from the Eocene of Kutch, western India	09:45–10:15 KEYNOTE ***Mohamed Abdelgawad*** 155 Reptilian fauna from the Early Miocene Pliopithecoidea locality of Moghra, Egypt	***Yara Haridy*** 572 Ordovician Vertebrates and the Origin of Bone Remodeling	***Csaba Hefler*** 273 Learning from the Aerodynamic Adaptations in *Microraptor* and its Contemporaries
10:00–10:15		***Andrej Spiridonov*** 543 Cluster analysis fails bioregionalization verification	***Moteng Moseri*** 371 Vegetation diversity, evolution, and climate signals across the Permo-Carboniferous boundary: Insights from the Ermelo and Witbank coalfields, South Africa		***Thomas M. B. Kirkwood*** 224 Pinniped brain shape lagged behind locomotor adaptations during the land-to-water transition		***Richard Dearden*** 601 Synchrotron microtomography reveals unusual vascular cartilage in the Ordovician vertebrate *Eriptychius americanus*	***Maxime Grosmougin*** 496 Reconstruction of Wing Muscle Attachment in Early Paravians and Their Implications for Early Flight Strokes
10:15–10:30	***James W. McDermott*** 491 The Function of Spiral Feeding Structures in Early Echinoderms	***Lin Na*** 590 From radiation to provinces: spatial scaling of Cambrian diversity	***Paula Sucerquia*** 611 The Cross Valley–Wiman Flora: A Window into Paleocene Antarctic Forests	***Raymond Rogers*** 123 Bone Modifications Big and Small: A Toothy Taphonomic Tour of the Late Cretaceous Bonebeds of Madagascar and Montana	***Julia A. Schwab*** 386 Aquatic adaptation drives coordinated evolution of the inner ear and cervical column in carnivorans	***Qigao Jiangzuo*** 129 The Mio-Pliocene Africa–South/Eastern Asia dispersal corridor: evidence from Carnivora	***Guillaume Houée*** 355 The earliest evidence of cartilage–cellular bone interaction from the Ordovician	***Maxime Grosmougin*** 583 A New Approach to Inferring Flight and Locomotor Behaviors in Feathered Dinosaurs: Wing Shape and Flight Evolution of Paravians
10:30–10:45	***David Wright*** 270 Testing the tempo and mode of speciation with probabilistic phylogenetics and the fossil record	***Alejandra Dalenz Farjat*** 89 Paleobiogeography of Ludlow-Lochkovian Bivalves of the Central Andean Basin in the context of Gondwanan and Peri-equatorial Basins	***Napussawan Thongsangtum*** 598 A late Oligocene–Early Miocene subtropic evergreen broadleaf forest in northern Thailand	***Michael Chiappone*** 197 Rollin' on the River: A Novel Quantitative Method for Estimating Transport Potential of Bones in Fluid Flow	***Pierre Orgebin*** 286 Integrative paleoneurology and brain evolution in insular Artiodactyla	***Alberto Valenciano*** 422 A new large civet from the Late Miocene of Abu Dhabi highlights the biogeographic crossroads between Asia and Africa	***Donglei Chen*** 249 The Hypomineralized Dentin and the Mineralized Osteocyte Lacunae in the Teeth and Jawbones of a Silurian Ischnacanthid Stem Chondrichthyan	***Thomas Dececchi*** 238 Reach for the Sky: Evidence for Different Ability and Variation Extended Flight in paravians

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB 2A **8 Biogeography: ranging through a dynamic Earth** Chairs: Cameron Penn-Clarke & Cole Naamdhew	PARALLEL 3 · NAB 2E **26 Vegetation change and plant-insect interaction from the Palaeozoic until modern times - Case studies from Africa and beyond** Chairs: Frank Neumann, Estelle Razanatsoa, Moteng Moseri & Jemma Finch	PARALLEL 4 · BAXTER REHEARSAL ROOM **12 Recent advances in vertebrate taphonomy** Chairs: Roger Smith & Anna K. Behrensmeyer	PARALLEL 5 · NAB AUDITORIUM (LT1) **2 Paleoneurology, cognition, and behaviour of vertebrates, from fish to hominins** Chairs: Julien Benoit & Amelie Beaudet	PARALLEL 6 · NAB 4A **23 Cenozoic vertebrates of Africa** Chairs: Alberto Valenciano & Adam Hartstone-Rose	PARALLEL 7 · BAXTER CONCERT HALL **19 Advances in the histology of the mineralised tissues of vertebrates** Chairs: Carmen Nacarino-Meneses & German Montoya-Sanhueza	PARALLEL 8 · NAB STUDIO 2 **20 Flight evolution in vertebrates** Chairs: Michael Pittman & Thomas Dececchi
10:45–11:00	***Karma Nanglu*** 358 Re-Description of the Soft-Bodied Cambrian Fossil *Cambropodus gracilis* and the Evolution of Sensory Innovations among Early Annelids	***Cole Naamdhew*** 146 The Great Devonian Interchange (GDI) and the Collapse of Bioregionalism	***Matthew McCurry*** 185 Fossil bees with ingested pollen from McGraths Flat, Australia	***Jack Milligan*** 567 Mapping an in situ microvertebrate bonebed from the Upper Cretaceous Wapiti Formation, northwestern Alberta, Canada	***Sam Giles*** 684 Exceptional neuroanatomical soft tissue preservation in early ray-finned fish fossils	***Jan van der Made*** 227 The vertebrate fauna from the Early Pleistocene of Ain Boucherit upper archaeological level (= Ain Hanech Formation Member R), (Algeria)	***Donald Davesne*** 626 Bone microanatomy in deep-sea teleost fishes: a proxy for estimating depth in fossil taxa	*Extended Discussion*

11:00–11:30 Morning coffee break Baxter and NAB

11:30–13:00 PARALLEL SESSIONS

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11:30–11:45	***Kelly Kittus*** 31 Chelicerate Fossils from the Kalana Lagerstätte (Aeronian, Llandovery) of Estonia	***Mateus Anilson Costa Santos*** 43 Tracing Biogeographic Connections Between Laurasia and Gondwana Across the Permian–Triassic Transition	***Simon Beurel*** 314 Flower Inclusions in Kachin Amber Provide New Insights into Angiosperm Evolution	***Roger Smith*** 59 Taphonomy and Palaeoenvironment of a Sauropodomorph Breeding Site in Southern Patagonia, Argentina	***Pranil Basu*** 83 A New Emydopoid Dicynodont (Therapsida, Anomodontia) from the Late Permian of India: Osteology and Paleoneurology	***Samir Zouhri*** 434 New insight on Tizi N'Taddert, one of the few major Neogene large vertebrate localities in North Africa	***Roberta Vakruchev*** 389 Histological Analysis of the Stem Tetrapod *Sterropterygion brandei* Reveals Potential Exaptation to Weight-bearing Limbs	***Oliver E. Demuth*** 478 Evolutionary insights into the flight capabilities of the ancestral crown bird
11:45–12:00	***Deusana Machado*** 640 Cucullellidae Fisher, 1886, Palaeoneilinae Babin, 1966, and Nuculitidae Bradshaw, 1999 (Bivalvia: Mollusca): a systematic discussion	***Luyi Miao*** 731 Machine Learning Reveals the Drivers of Marine Biodiversity Distribution during the Late Paleozoic	***Frank Harald Neumann*** 299 Exploring Landscape Transformations: Assessing the Vegetation Dynamics of Lake Mzingazi, eastern South Africa, in the Late Holocene	***Anna Behrensmeyer*** 524 Time-averaging and taphonomy of vertebrates in paleochannel deposits based on 14C dating of bones in two modern river systems	***Thomas Ducrey*** 116 The palaeoneurology of the Triassic cynodont *Diademodon tetragonus* unveiled through computed tomography	***Martin Pickford*** 420 Tiny Tragulid (Artiodactyla, Mammalia) from the late Burdigalian of Moghara, Egypt: biochronological implications	***Sifra Bijl*** 540 A Unique Ossification Pattern in the Limbed Stem Tetrapods with Implications for Long Bone Evolution	***Daniel Field*** 172 Flight, foraging mode, and nest attendance structured the crown bird radiation

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12:00–12:15	***Robert Sansom*** 632 Timing the Origins of Major Groups of Early Vertebrates and the Missing Silurian Record of Ostracoderms	***Pavel Sroka*** 188 New fossil stoneflies provide insights into the current global distribution of this insect order	***Frank Harald Neumann*** 290 A new Holocene pollen record from a peatland system in northern South Africa	***Mírian Pacheco*** 663 How many giant sloths tell the tale of the first Americans? The zooarchaeological interpretation of Santa Elina (Brazil) through spectroscopy	***Lena Schmitz*** 244 Sensory Adaptations in Temnospondyli: Osteological Evidence from Cranial Morphology	***Nikolaos Kargopoulos*** 192 Locomotor Inferences on the Postcranial Skeleton of the Giant Viverrid *Civettictis vulpidens* from Langebaanweg (Early Pliocene, South Africa)	***Sophie Sanchez*** 568 Diversity of Humerus Microanatomy in Carboniferous Tetrapods	***Jesús Marugán-Lobón*** 261 Testing the Aerodynamic Performance of the Avian Head and Body Profile: An Experimental Approach
12:15–12:30	***Romain Gougeon*** 131 Decoding the Evolution of Animal Behavior at High Resolution using Time-Environment Matrices	***Tao Deng*** 110 Evolution of the Mesozoic and Cenozoic vertebrate biogeography in the Tibetan Plateau	***Dan Lyu*** 6 Palynological Record of the Paleoclimatic Transition in the Southeastern Ordos Basin during the Late Triassic	***Aishee Sanyal*** 80 Geochemical Insights into Late Triassic Bonebeds from India Based on Trace Element Study	***Erin Lund*** 338 Re-description of the Triassic cynodont *Cistecynodon parvus* and reassessment of its phylogeny	***Fay-Yaad Toefy*** 222 The Microvertebrate Community Assemblage Composition of the Sivathere Bonebed at the Pliocene Langebaanweg locality, Western Cape, South Africa	***Enele Twala*** 54 Comparative Osteohistology Reveals Contrasting Growth Strategies in Early Amniotes and Reptiles	***Daniel Smith Paredes*** 535 Embryonic Development of the Avian Flying Apparatus and the Reduction and Loss of Flying Capabilities Among Birds
12:30–12:45	***Christian Klug*** 173 Potential Drivers of the Devonian Nekton Revolution	***Sayak Ghosh*** 64 Palaeobiogeographic Affinities of The Late Cretaceous Gastropods from Southern India: Implications for The Tropical Atlanto–Indian Province		***Pim Kaskes*** 705 Geochemical Fingerprinting of Mesozoic Bonebeds: Tracing Taphonomic Histories and Paleoenvironments using LA-ICP-MS on Fossil Bioapatite	***Julien Benoit*** 29 Exceptional preservation of the scleral rings, bony labyrinth and a soft-tissue brain in *Moschops capensis*	***Domenico Marchitelli*** 266 Unraveling the reptile fauna of Langebaanweg: new data from one of the richest Pliocene localities in the world	***Tomas Fornari*** 56 A bag of skittles: new insights in the unique dentition of the enigmatic Middle Triassic marine reptile, *Omphalosaurus*	*Extended Discussion*
12:45–13:00	***Alycia Stigall*** 411 The Central Role of Species Invasions for Structuring Biotic Change in The Fossil Record from Biodiversification Events to Mass Extinctions	***Benjamin Carter*** 269 Climate and Tectonic Influences on the Richness and Energy Use of Mammalian Communities Through Miocene Warming and Cooling		***Laszlo Kocsis*** 117 Chemical Taphonomy of Vertebrate Fossils: Insights from Trace Elements and Isotope Geochemistry		***Deano Stynder*** 600 Integrating Bovid Locomotor and Dietary Evidence to Reconstruct the Early Pliocene Habitat Structure of Langebaanweg, South Africa	***Lutendo Mukwevho*** 55 Osteohistology of a size series of South Africa's silesaurs from the Late Triassic	***Benton Walters*** 218 Functional Optimality and Convergence in Bird and Bat Wing Shapes

13:00–14:00 Lunch Lunch box pickup at Baxter

14:00–15:30 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB 2A **8 Biogeography: ranging through a dynamic Earth** Chairs: Cameron Penn-Clarke & Cole Naamdhew	PARALLEL 3 · NAB 2B **17 Recent advances in dinosaur eggs and reproduction** Chairs: Kimberley Chapelle & Diego Pol	PARALLEL 4 · BAXTER REHEARSAL ROOM **12 Recent advances in vertebrate taphonomy** Chairs: Roger Smith & Anna K. Behrensmeyer	PARALLEL 5 · NAB AUDITORIUM (LT1) **2 Paleoneurology, cognition, and behaviour of vertebrates, from fish to hominins** Chairs: Julien Benoit & Amelie Beaudet	PARALLEL 6 · NAB 4A **23 Cenozoic vertebrates of Africa** Chairs: Alberto Valenciano & Adam Hartstone-Rose	PARALLEL 7 · CONCERT HALL **19 Advances in the histology of the mineralised tissues of vertebrates** Chairs: Carmen Nacarino-Meneses & Maria Eugenia Pereyra	PARALLEL 8 · NAB STUDIO 2 **20 Flight evolution in vertebrates** Chairs: Michael Pittman & Thomas Dececchi
14:00–14:15	***Wayne Itano*** 141 A Viséan Holocephalan *Tenaculum* Having Myriacanthoid Affinities, from Indiana, USA, and the Emergence of Chimaeriform Clades in the Lower Carboniferous	***Kateryn Pino*** 42 Functional Expansion and Replacement: The Rise of South American Mammal Faunas' Mixture	***Josh Hedge*** 204 Quantifying dinosaur eggshell ornamentation and untangling maniraptoran egg evolution	***Celina Suarez*** 212 Laser-ablation ICP-MS analysis of microvertebrate assemblages: a tool for taphonomy and ecosystem trophic structure	14:00–14:45 KEYNOTE ***Mary Silcox*** 109 The Past, Present, and Future of Non-hominin Primate Paleoneurology: Reflections on Nearly 20 years of Working on Virtual Endocasts	***Alberto Valenciano*** 423 Diversity of small felids from Langebaanweg (Early Pliocene, South Africa)	***Claudio Bravo-Ortiz*** 63 Extreme Bone Compactness Suggests Aquatic Behavior in *Gonkoken nanoi*, a Hadrosauroid Dinosaur From Southern Chile	***Thomas Dececchi*** 210 Winged Familiars: Investigating the Relationship Between Stylopodial Circumference and Mass in Bats and pterosaurs
14:15–14:30	***Pedro Monarrez*** 200 Brachiopod Response to the Onset of the Late Paleozoic Ice Age at the Mid-Carboniferous Global Type Locality	***Harriet Nuttall*** 70 The Great Gondwanan Adventure: Mapping the Dispersal of Metatherian Mammals in the Paleogene	***Miguel Moreno-Azanza*** 592 Palaeocology of abnormally thick *Megaloolithus* eggshells from Iberia	***Blake Forrest*** 287 Revealing the cranial anatomy of the Western Australian Triassic rhytidosteid temnospondyl *Deltasaurus pustulatus* (Stereospondyli, Trematosauria) via synchrotron scanning		***Romala Govender*** 581 How the west has changed: South African west coast fossil marine mammals the story so far	***Elzbieta Teschner*** 556 Origin of Fibrolamellar Bone – Not As Easy As One Would Think	***Michael Pittman*** 414 Laser-Stimulated Fluorescence in pterosaur flight studies: past, present & future
14:30–14:45	***Mauricio Rodrigo Schmitt*** 644 An Exceptional Large-Bodied Stem Ray-Finned Fish from the Lontras Shale (Lower Permian), Brazil		***Vincent Fernandez*** 617 Complementary synchrotron X-ray techniques to characterize fossilized eggshell: A case study on *Massospondylus* eggshells	***Alicia Sánchez Gimeno*** 472 Unveiling the Chondrichthyan Fauna from the Paleozoic of Uruguay (San Gregorio Formation): Anatomy, Exceptional Soft-Tissue Preservation and Gondwanan Connections		***Jorge Morales*** 424 New Felinae (Mammalia, Carnivora, Felidae) from the Early Miocene of Moghara, Egypt	***Brodsky Farias*** 57 Osteoderm histology of *Dynamosuchus collisensis* (Archosauria, Pseudosuchia): Implications for histovariability and ontogenetic trajectory in Ornithosuchidae	***Emma Dunne*** 591 Moving in the flight direction: Climatic drivers of pterosaur evolution and biogeography
14:45–15:00	***Nakuru Kudo*** 452 Taxonomy, Taphonomy and Environmental Distribution of Phillipsid Trilobite in the Middle Permian Kamiyasse Formation of the Southern Kitakami Terrane, Japan		***Diego Pol*** 657 Variability in egg shape and size within *Mussaurus* nests: pathological variation or nest parasitism?	***Veronicah Onduso*** 288 Predator-Specific Taphonomic Signatures in Modern Owl-Derived Assemblages: Implications for Small Vertebrate Fossil Interpretation in Amboseli Kenya	***Edwin de Jager*** 349 Before big brains: tracing the deep origins of human cortical organization	***Marta Pina*** 460 The Nakali Project: More Than 20 Years of Campaigns in the Kenyan Late Miocene	***Anusuya Chinsamy-Turan*** 596 Palaeobiological Insights into some of Australia's Cenozoic Mekosuchine Crocodiles	***Michael Pittman*** 413 Early beaked bird *Confuciusornis* flew better in its denser palaeoatmosphere
15:00–15:15	***Luyan Li*** 8 Using Fossils to Improve Molecular Dating in Deep-Time Evolution		***Seung Choi*** 130 Dinosaur eggs from the Upper Cretaceous Dadaepo Formation of Korea: Preservation and palaeobiogeography		***Amelie Beaudet*** 144 How did the hominin brain evolve? An integrated view from the fossil record	***Pablo Peláez-Campomanes*** 426 The African Evolutionary History of *Progonomys*	***Mohd Shafi Bhat*** 462 Growth dynamics and histological variation of *Alligator mississippiensis*: implications for archosaur physiology	*Extended Discussion*

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 3 · NAB 2B **17 Recent advances in dinosaur eggs and reproduction** Chairs: Kimberley Chapelle & Diego Pol	PARALLEL 5 · NAB AUDITORIUM (LT1) **2 Paleoneurology, cognition, and behaviour of vertebrates, from fish to hominins** Chairs: Julien Benoit & Amelie Beaudet	PARALLEL 6 · NAB 4A **23 Cenozoic vertebrates of Africa** Chairs: Alberto Valenciano & Adam Hartstone-Rose	PARALLEL 7 · BAXTER CONCERT HALL **19 Advances in the histology of the mineralised tissues of vertebrates** Chairs: Carmen Nacarino-Meneses & Maria Eugenia Pereyra
15:15–15:30	***Jeffrey Thompson*** 503 Macroevolutionary diversification of feeding structures in echinoids	***Aurore Canoville*** 19 Birds Occupying Ecological and Physiological Extremes Deposit Medullary Bone		***Brigitte Senut*** 431 Cenozoic Macroscelideans from the Sperrgebiet, Namibia	***Maria Eugenia Pereyra*** 513 As above, so below? Inferences on sauropsid dermal armor evolution from microstructural analysis of *Caiman yacare* ventral osteoderms

15:30–16:00 Afternoon coffee break Baxter and NAB

16:00–17:00 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB 2B **17 Recent advances in dinosaur eggs and reproduction** Chairs: Kimberley Chapelle & Diego Pol	PARALLEL 3 · NAB AUDITORIUM (LT1) **2 Paleoneurology, cognition, and behaviour of vertebrates, from fish to hominins** Chairs: Julien Benoit & Amelie Beaudet	PARALLEL 4 · NAB 4A **23 Cenozoic vertebrates of Africa** Chairs: Alberto Valenciano & Adam Hartstone-Rose	PARALLEL 5 · BAXTER CONCERT HALL **19 Advances in the histology of the mineralised tissues of vertebrates** Chairs: Carmen Nacarino-Meneses & Maria Eugenia Pereyra
16:00–16:15	***William J. Foster*** 122 Ocean Life on the Brink: Quantifying the Collapse of Shallow Marine Ecosystems during the Permo-Triassic Climate Crisis	***Jasmina Wiemann*** 631 Fossil biomolecules reveal the evolutionary co-dependence of metabolic and reproductive strategies in amniotes	***Heather Smith*** 332 Sensory Ecology and Ecospace Partitioning among Baenid Turtle Taxa from the Judith River Formation (Campanian, USA)	***Andrea Herbert Mainero*** 471 Revisiting the Phylogenetic Position of the Only Known Fossil Aplocheiloid Fish	***Ayanda Buso*** 510 Biological Insights from the Osteohistology of the Nile Crocodile
16:15–16:30	***Baran Karapunar*** 335 Community scale extinction dynamics during the Permian–Triassic mass extinction across regions and temporal scales	***Shukang Zhang*** 112 Biogenic Origin of Secondary Eggshell Units in Dinosaur Eggshells Elucidates Lost Physiology of Dinosaurs	***Paulina Moctezuma Duclaud*** 508 Ontogenetic Trajectory of the Endocast in *Trachemys scripta*: Implications for Interpreting the Evolution of the Testudines Braincase	***Olga Otero*** 552 The Cenozoic Fossil Record of African Freshwater Fish: an Overview and Original Insights into Evolution in the Continent's Aquatic Environments	***Maria Eugenia Pereyra*** 511 Osteohistology and growth dynamics of *Crocodylus niloticus*
16:30–16:45	***Michael Hautmann*** 95 Recovery of Bivalves from the End-Permian Mass Extinction	***Kimberley Chapelle*** 525 Morphological comparison between *Mussaurus* embryo and hatchling skeletons	***Thiago Fachine*** 437 An exceptionally preserved Cretaceous fossil snake from Brazil		
16:45–17:00			***Gabriela Sobral*** 542 Neuroanatomy and Ecology of Early Snakes		

17:00–17:45 PLENARY **Marion Bamford** Baxter Concert Hall
The palaeobotanical record of southern Africa

17:45–18:45 **Poster session 1** Baxter

DAY 1 MONDAY, 30 NOVEMBER 2026

POSTER SESSION 1 · 17:45–18:45

63 posters, grouped by theme. Numbers are abstract (paper) numbers.

02 · Palaeoneurology, cognition, and behaviour of vertebrates, from fish to hominins 4

51 ***Reitumetse Sebusi***
Head Posture and the Lateral Semicircular Canal of the Inner Ear: Endgame

378 ***Edwin de Jager***
The role of the middle meningeal vessels in the evolution of the human brain

505 ***Leonardo Kerber***
New data on cranial anatomy and paleoneurology of carnivorous stem-mammals from the Middle Triassic of Brazil revealed by computed tomography

658 ***Lucas Hariel Martins de Lima***
Preliminary Description of the Encephalic Cavity of *Aphaurosuchus* escharafacies (Notosuchia: Baurusuchinae)

05 · Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems 20

100 ***Ummehani Hussain Kagalwalla***
Test Morphology As Taphonomic Control on Fragmentation of Eocene Larger Benthic Foraminifera, Kutch Basin, India: Evidence from Adolescent-led Data Collection

111 ***Boo-Keun Khim***
Integrated Chronostratigraphy of Magellan Seamount KC-7 in the Western Pacific Ocean for Late Neogene Paleoceanographic Studies

125 ***Sven Sachs***
Hidden diversity of early plesiosauroids in the Lower Jurassic Posidonia Shale of Germany

140 ***William J. Foster***
Marine Ecosystem Persistence and Recovery in Svalbard Following the Permian–Triassic Mass Extinction

176 ***Andrzej Kaim***
Unexpected Diversity of Brachiopods in the Paleocene Babica Clays from the Polish Outer Carpathians

180 ***Sofia Bakayeva***
Cypraeoidea in the Making: How Colombellinid *Zittelia* Transformed into Cowry

283 ***Binbin Xia***
Long-term Ecological Responses to Human Impact and Eutrophication in Tokyo Bay by Using Ostracod Fossil Records

356 ***Jonatan Audycki***
Exploring the Morphological Disparity of Mesozoic Horseshoe Crabs with Geometric Morphometrics

376 ***Sinjini Sinha***
Morocco as a Refugia for Level-Bottom Communities During the Early Jurassic Climate Crises

429 ***Nakuru Kudo***
An Advantage of Cast-and-Mold Preservation: Microfocus X-ray CT Technique Revealed 3D Pattern of Fossil Assemblages

449 ***Yuta Shiino***
Hydrodynamic Constraints on the Feeding Strategy of the Ordovician Trilobite *Isotelus*

468 ***Sreshta Ponnala***
Ecological Signal or Taphonomic Ghost? Adolescent Co-researcher-led Study of *Discocyclina* Dominance over *Nummulites* across Eocene Fulra Limestone, Kutch Basin, India

487 ***Yuta Shiino***
Hydrodynamic Advantages of the Zigzag Commissure in Orthid Brachiopods

492 ***James McDermott***
The Evolution of Pentaradial Symmetry in Echinoderms

558 ***Gloria Daners***
The K–Pg Transition at the Punta Del Este Basin (Uruguay) based on Dinoflagellate Cyst Events

559 ***Gloria Daners***
The First Record of Miocene Dinoflagellate Cyst Assemblages from the Lobo X-1 Well, Punta Del Este Basin, Uruguay

649 ***Luiz Weinschutz***
New Cephalopods Records from the Lontras Shale, Cisuralian of the Paraná Basin, Brazil

654 ***Wenqian Feng***
Functional Analysis of Early Palaeozoic Reef-building Sponges

656 ***Monica Buono***
A changing marine fauna: taxonomic turnover across the Miocene of Patagonia, Argentina

686 ***Rilda Araripe***
Collapse and Recovery of the Foraminifera During Oceanic Anoxic Event 1b of the Araripe Basin, in Central Gondwana

08 · Biogeography: ranging through a dynamic Earth 2

114 ***Lalita Weerachai***
The Lessepsian invasion as a macroevolutionary round trip: returning Tethyan ostracod lineages in the Mediterranean

387 ***Mateusz Tałanda***
Testing Eurasian vertebrate exchange during the Miocene along the northern coast of the Paratethys

12 · Recent advances in vertebrate taphonomy 7

3 ***Shaymae Iken***
The Holocene brown bear (Ursus arctos L.) in Morocco: A study of its diet by ZooMS and Isotopic Analysis

22 ***Briana Pobiner***
The International Taphonomy Reference Collection (ITRC): a new Symbiota-based online data portal

203 ***Zoë Bowers***
Age and Taphonomic Context of Vertebrate Fossil-bearing Concretions from Nearshore Marine Deposits of Upper Cretaceous Strata from the Antarctic Peninsula

295 ***Zoleka Sibiya***
Taphonomy and Sedimentology of Temnospondyl Bonebeds of the Early Triassic Karoo Basin and their Significance in a post-extinction terrestrial ecosystem

564 ***Enrique Peñalver***
How to Explain the Relative Abundance of Feathers in Cretaceous Amber?: Actuotaphonomic Research in High Density Nesting Avian Colonies

588 ***Eudald Mujal***
A diminutive tanystropheid (Diapsida: Archosauromorpha) with unusual preservation from the lower Middle Triassic Grès à Voltzia lagerstätte, France

736 ***Gustavo Prado***
Melanosomes at naked eye: Visualization under visible light

17 · Recent advances in dinosaur eggs and reproduction 4

62 ***Hsiao-Jou Wu***
Mechanics of Dinosaur Eggshells Shed New Light on the Diversity of Dinosaur Reproductive Strategies

136 ***Jierui Luo***
Distinction Between Stromatoolithidae and *Paraspheroolithus* with a New Oofamily Erection

500 ***David Ward***
Woodeaton Dinosaur Eggshell; a Journey from Quarry to Parataxonomy

637 ***Lope Ezquerro***
Geochemical insights from sauropodomorph eggshells: implications for Late Cretaceous paleoenvironments

18 · Pathologies in modern and fossil vertebrates 1

193 ***Nikolaos Kargopoulos***
Cranial Bite Punctures in Two Hyaenid Species from Spain: Evidence of Intraspecific Aggression and Evolutionary Implications

19 · Advances on the histology of the mineralised tissues of vertebrates 5

78 ***Tamara Navarro***
Indeterminate Growth in Notosuchia? What Bone Histology Tell Us

154 ***Guillermo Jose Windholz***
Osteohistology of Patagonian alvarezsaurids: new insights into growth dynamics, maturity, and body size evolution

438 ***Tamara Navarro***
Palaeobiological Inference of a Juvenile of *Araripesuchus* (Crocodyliform: Notosuchia) from the Late Cretaceous of Argentinean Patagonia

665 ***German Montoya-Sanhueza***
Bone histology of a living fossil, the monito del monte, *Dromiciops gliroides* (Australidelphia: Microbiotheria)

679 ***Yumi Asakura***
Dorsal Fin Ray Paleohistology of *Axelrodichthys araripensis*, an Extinct Mesozoic Coelacanth from Romualdo Formation, Araripe Basin, Brazil

20 · Flight evolution in vertebrates 1

384 ***Yosef Kiat***
Functional Evolution of Hindlimb Feathers in Dinosaurs and Birds

23 · Cenozoic vertebrates of Africa 5

307 ***Mohamed AbdelGawad***
Sirenia remains from the Early Miocene Moghra, Egypt

369 ***Brent Adrian***
Evolutionary change in Neogene mammalian paleocommunities of Africa

419 ***Christina Mutinda***
New Insights into Mammalian Faunal Diversity at Chesowanja, Baringo Basin, Kenya

435 ***Samir Zouhri***
Eocene archaeocete whales from the Sahara Desert provide new insights into the diversity and phylogeny of Basilosauridae

683 ***Rebecca Peacocke***
Identifying and Describing a Pleistocene Canid from Hondeklip Bay, South Africa

25 · Freshwater paleoecosystems 4

81 ***Debora Eliza Baumann***
Taxodont hinge in Cretaceous Iridinidae: convergence or shared ancestry across Gondwana?

364 ***Joseph Frederickson***
Unambiguous Hybodont Shark (Hybodontiformes) Remains from the Morrison Formation of Western, USA

636 ***Richard Dearden***
Cranial remains of a jalodontid chondrichthyan from the Upper Triassic Arden Sandstone Formation of Warwickshire, UK

722 ***Debora Eliza Baumann***
Itaimbeia sp. Revisited: Soft Tissue Preservation in a Bivalve from the Maastrichtian of Brazil (Marília Formation, Bauru Basin)

26 · Vegetation change and plant-insect interaction from the Palaeozoic until modern times - Case studies from Africa and beyond 9

23 ***Ning Zhou***
Whole-plant reconstruction of *Pagiophyllum maculosum* (Cheirolepidiaceae) from the Early Jurassic of China: Insights from new fossil material

84 ***Esther Pinheiro***
What do we know about plant–insect interactions during the Eocene in Brazil?

135 ***Sneha Bhaumik***
Desmiophyllum as a Palaeobotanical Marker for the Jurassic–Cretaceous Transition: First Record from the Bhuj Formation, Kachchh Basin, Western India

183 ***Siqi Xie***
Late Holocene Vegetation History Inferred from a Coastal Pollen Record in Daya Bay, South China

231 ***Miriam Slodownik***
Forest structure of a near south polar flora during the Early Eocene Climatic Optimum, Tasmania, Australia

662 ***Jyotsna Dubey***
Vegetation response to millennial and centennial scale monsoon variability during last ~7000 yrs in monsoon dominated outer Lesser-Himalaya, India

674 ***Jordan Stock***
Fossil Plant Diversity of the Morrin Bridge Paleofloral Site in the Early Maastrichtian Horseshoe Canyon Formation of Alberta, Canada

693 ***Xavier Delclos***
Amber from the Iberian Paleoisland: A Hotspot of Forest Paleobiodiversity at Low Latitudes during the Cretaceous Resinous Interval

696 ***Xavier Delclos***
From Resinous Forests to Amber Deposits: Drivers and Pulses of the Cretaceous Resinous Interval

28 · Bridging the molecular gap between life past and present 1

528 ***Kliti Grice***
Time of Flight-Secondary Ion Mass Spectrometry reveals that mineralisation controls biomarker preservation associated with soft tissue fossils

DAY 2 TUESDAY, 1 DECEMBER 2026

08:00–08:45 **Registration** Baxter Theatre Centre

08:45–09:30 PLENARY **Paul Barrett** Baxter Concert Hall

The next dinosaur renaissance? A possible agenda for the future of dinosaur research

09:45–11:00 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE 5 **Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB AUDITORIUM (LT1) 14 **Origins: Triassic and Early Jurassic dinosaurs** Chairs: Paul M. Barrett & Jonah N. Choiniere	PARALLEL 3 · NAB 4A 7 **Ichnology – traces as multi-disciplinary lenses into the deep past (Invertebrates)** Chairs: Paula Dentzien-Dias & Daniel Sedorko	PARALLEL 4 · NAB 2A 30 **General session: Other reptiles** Chairs: Eric Wilberg & Viktor Radermacher	PARALLEL 5 · NAB 4D 30 **General session: Methods** Chairs: Arindam Roy & Simon Wills	PARALLEL 6 · CONCERT HALL 19 **Advances in the histology of the mineralised tissues of vertebrates** Chairs: German Montoya-Sanhueza & Maria Eugenia Pereyra	PARALLEL 7 · REHEARSAL ROOM 10 **Devonian stratigraphy, environments and palaeontology with focus on Gondwana** Chairs: Cameron Penn-Clarke, Rob Gess & David Harper	PARALLEL 8 · NAB 2B 15 **Paleobionics: the biomechanical factors that drive evolution** Chairs: Bao Tong & Wu Jianing
09:45–10:00	***Adam Shatwell*** 216 The Boreal Ocean was a Latitudinal Refugium and Cradle through the Permian-Triassic Climate Crisis			***Fernando Garberoglio*** 152 A New Cretaceous Legged Snake From South America (Candeleros Formation, Northern Patagonia, Argentina)	***Julien van der Hoek*** 124 ARchER: a New Model for Testing Biotic and Abiotic Drivers of Evolutionary Rates	***Aurore Canoville*** 18 Unusual Bone Microstructure Supports Fossorial Habits in Bromacker Diadectids	***Eliott Capel*** 246 The Impofu Dam flora from South Africa: an exceptional window into the earliest land plant communities	***Emily Rayfield*** 648 What can Development, X-rays and Biomechanics Tell Us About the Origin of Mammals?
10:00–10:15	***Qiling Liu*** 490 Explosive Morphological and Functional Diversification in Marine Predators in the Triassic			***Ailie Mackenzie*** 182 Relationships Between Ecology and Vertebral Morphology in Extant and Extinct Australian Snakes	***Alessandro Carniti*** 207 Applying Large Language Models to Palaeontological Taxonomy: A New Tool for Fossil Identification and Morphospace Analysis	***Caitlin Rabe*** 664 Diictodon's Dentition: Insights from X-Ray Computed Tomography and Histological Sectioning	***Daniel Sedorko*** 563 The Rise and Fall of the Malvinoxhosan Biota in Gondwana	***Narimane Chatar*** 208 Performance trade-offs define a fundamental dental dichotomy in mammals
10:15–10:30	***Wujun Xu*** 455 Apparatus architecture of the Early Triassic conodont *Cornudina breviramulis* (Prioniodinina, Ozarkodinida)	***Zichuan Qin*** 205 Synchrotron data provide new insights into the origin of the bird respiratory system	***Wahiba Bel Haouz*** 5 Integrating ichnological and sedimentological analysis in the Late Devonian strata of eastern Anti-Atlas of Morocco	***Georgios Georgalis*** 497 Fossil Record and Evolution of Vipers (Serpentes, Viperidae) in Europe	***Arindam Roy*** 289 Breaking the Bottleneck: A Self-Supervised Deep Learning Framework for Fully Automated Fossil CT Segmentation	***Andre Rowe*** 675 Protracted dental replacement and life history across the mammaliaform transition	***Mariana Vilela-Andrade*** 330 Bayesian tip-dating recovers diversification dynamic trends for marine taxa across Devonian biocrises	***Hans Püschel*** 252 New insights into the evolution of the mammalian shoulder girdle and sternum from gondwanatherians
10:30–10:45	***Jonathan Pople*** 650 A 3D Reconstruction of The Skull of *Neusticosaurus pusillus*, The Archetypal Pachypleurosaur from Monte San Giorgio	***Max Langer*** 28 Silesaurids: Dinosaur Sister-Clade, Ornithischian Grade, Neither, or Both?	***Olmo Miguez Salas*** 101 The Paleocene-Eocene Thermal Maximum did not cause a global extinction on bioturbating animals	***Eric Wilberg*** 108 A Reevaluation of *"Sunosuchus" shunanensis* and the Temporal, Geographic, and Ecological Diversity of Hsisosuchid Crocodyliforms	***Andrej Spiridonov*** 512 The time-dependency of phenotypic evolution within fossil lineages: Haar fluctuations and structure functions	***Gregory Funston*** 229 Life History Filters in Mammalian Extinction at the End of the Cretaceous	***Cameron Penn-Clarke*** 709 First geochronological ages from the Devonian of South Africa suggest global reach of Early-Middle Devonian biocrises to south polar regions	***Katerina Jones*** 303 The evolutionary origins of numerical constraint in the mammalian presacral column
10:45–11:00	***Alexander Nützel*** 348 The Highly Diverse Gastropod Fauna of the Upper Triassic St. Cassian Formation (Italy)	***Christopher Griffin*** 546 Inferring the dispersal patterns of early dinosaurs using occurrence-based models	***Daniel Sedorko*** 139 *Bifungites* and its potential tracemaker	***Michela Johnson*** 134 Traumatic Face-Biting in a Jurassic Teleosauroid Crocodylomorph and Implications for Conspecific Interactions	***Parto Shahroudi*** 551 Ice age fossil classification using AI multi-tasking and hyperbolic contrastive learning	***Andrea Cuccu*** 77 Exploring the dental histology of Early and Middle Miocene Iberian ruminants	***Federico D.Wenger*** 484 Ichnological Responses to Environmental Shifts across Devonian Marine Ecosystems of Southwestern Gondwana: Insights from the Precordillera, Argentina	***Antonio Ballell Mayoral*** 361 Morphological innovations of the skull underpin the evolution of cranial kinesis

11:00–11:30 Morning coffee break Baxter and NAB

11:30–13:00 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB AUDITORIUM (LT1) **14 Origins: Triassic and Early Jurassic dinosaurs** Chairs: Paul M. Barrett & Jonah N. Choiniere	PARALLEL 3 · NAB 4A **7 Ichnology – traces as multi-disciplinary lenses into the deep past (Invertebrates)** Chairs: Paula Dentzien-Dias & Daniel Sedorko	PARALLEL 4 · NAB 2A **30 General session: Other reptiles** Chairs: Eric Wilberg & Viktor Radermacher	PARALLEL 5 · NAB 4D **30 General session: Methods** Chairs: Arindam Roy & Simon Wills	PARALLEL 6 · CONCERT HALL **19 Advances in the histology of the mineralised tissues of vertebrates** Chairs: German Montoya-Sanhueza & Maria Eugenia Pereyra	PARALLEL 7 · REHEARSAL ROOM **10 Devonian stratigraphy, environments and palaeontology with focus on Gondwana** Chairs: Cameron Penn-Clarke, Rob Gess & David Harper	PARALLEL 8 · NAB 2B **15 Paleobionics: the biomechanical factors that drive evolution** Chairs: Bao Tong & Wu Jianing
11:30–11:45	***Emily Ball*** 221 Reconstructing Relative Metabolic Rates and Habitat Occupation in the Christian Malford Lagerstätte Using Stable Isotopes	***Jack Lovegrove*** 614 Seeley's Revenge, A Novel Dataset for Analysing The Relationships Of Early Dinosaur Recovers The Traditional Saurischia/Ornithischia split	***Zachary Cover*** 151 A Morphometric Approach to *Treptichnus pedum* identification and Its Reliability as a Biostratigraphic Marker	***Eduardo Puértolas Pascual*** 486 New evidence on small-bodied atoposaurids (Crocodylomorpha) from the Upper Jurassic Lourinhã Formation (Portugal)	***Thomas Clements*** 589 A sequential filtering framework for quantifying taphonomic and anthropogenic bias in fossil diversity patterns	***Carmen Nacarino-Meneses*** 195 Beyond diet: life history strategy and the development of high-crowned teeth in Equidae	***Hugo Gonçalves Dias Queiroz*** 456 Stalked bryozoan-like colonies from the Devonian Paraná Basin reveal a previously unrecognized component of Malvinoxhosan benthic communities	***Wade Harris*** 45 Quantifying the Role of Skull Fenestration, Organization and Cranial Kinesis in Amniote Evolution
11:45–12:00	***Sofia Bakayeva*** 179 Early Evolution of Higher Caenogastropoda: Phylogenetic Implications of Purpurinid Diversification	***Maximilian Kellermann*** 309 A new Argentinian relative of the enigmatic dinosaur *Chilesaurus* and a new phylogenetic dataset for the Dinosauria	***Paula Dentzien-Dias*** 159 Deciphering Live-Live Interactions and Bioerosion in Quaternary Marine Assemblages of Southern Brazil	***Brenlee Shipps*** 234 A beak is not a black box: demystifying the diets of edentulous amniotes using dental topographic analysis	***Simon Wills*** 628 Artificial Intelligence in Paleontology: Developing Scalable Workflows for Fossil Identification and Taxonomy	***Megan Woolley*** 519 Age and Life History of Modern and Fossil Balaenopterids Deciphered From Tympanic Bullae Histology	***Hugo Gonçalves Dias Queiroz*** 396 Shell islands in a stressed Devonian seafloor: epibiotic discinid brachiopods on *Acharax* bivalves from austral Gondwana	***Alex Acker*** 571 The cranial myology of the gorgonopsian *Cyonosaurus*
12:00–12:15	***Shiladri S. Das*** 597 Study of Gastropods Morphotypes Across the Jurassic–Cretaceous Transition: A Case Study from Indian Fossil Record	***Atashni Moopen*** 191 South Africa's earliest near-complete sauropodomorph dinosaur skull from the Late Triassic of the Eastern Cape Province	***Davinia Díez-Canseco*** 608 Erosionally modulated autocomposite ichnofabrics	***Ethan Mooney*** 494 Revisiting a Carboniferous Classic: Micro-CT of the *Paleothyris acadiana* Holotype and New Insights into the Earliest Reptiles	***Gabriel Ladeira Osés*** 712 Applying Multispectral and Hyperspectral Imaging to Fossil Investigation	***German Montoya-Sanhueza*** 714 Convergent evolution to fossoriality: an example of microanatomical adaptation in Hystricomorpha (Rodentia)	***Shou-han Wu*** 163 Paleobiogeographic Implications of Early Devonian Chitinozoans from Central Guangxi, South China	***Ashleigh Wiseman*** 593 From Fossils to Function: Reconstructing Locomotion in Extinct Hominins
12:15–12:30	***Erin Maxwell*** 383 Ecomorphology of Suspension-Feeding Pachycormiform Fishes Elucidated by a Three-Dimensionally Preserved Skull of *Asthenocormus titanius* (Kimmeridgian, Bavaria)	***Joep Schaeffer*** 464 Additional taxonomic and morphological diversity of Triassic sauropodomorphs from Laurasia revealed by specimen-level phylogenetic and morphometric analyses	***Renata Netto*** 724 Mesoglea, Substrate, Decay, and Detritivory: Who is Who in the Potential of Preservation of Jellyfish Trace Fossils	***Paulina Jiménez-Huidobro*** 742 3D reconstruction of the labyrinth of *Tylosaurus nepaeolicus* from the Late Cretaceous of North America		**16 Pangea in crisis: life on land during the Permian–Triassic · Baxter Concert Hall** 12:15–12:45 KEYNOTE ***Jennifer Botha*** 75 The Terrestrial Permo-Triassic Mass Extinction in the Karoo Basin: Timing, Climate and Survival Strategies	***Ulrich Jansen*** 622 Recent advances of Rhenish brachiopod studies (Přídolí–Eifelian, Germany)	***Grégoire Boulinguez-Ambroise*** 407 Biomechanics of walking across different substrates: implications for the evolution of bipedalism in hominins
12:30–12:45	***Leonardo Pérez Barría*** 718 A Diverse Diatom Community Discovered in the Katterfeld Formation (Lower Cretaceous, Hauterivian) in Western Patagonia, Chile	***Martin Ezcurra*** 575 The Postcranium of the Triassic Neotheropod Dinosaur *Zupaysaurus rougieri* and a Revision of the Phylogenetic Relationships of the Species	***Petter Nordenhaug*** 537 Predation, detritivory and sediment colonization: trophic interactions from Early Cambrian ecosystems of southern Norway		**6 The Precambrian: the earliest chronicles of life on Earth · NAB Studio 1** 12:30–13:00 KEYNOTE ***Jan-Peter Duda*** 741 Forging New Paths into Precambrian Worlds: Learning to Read the Fossil Record of Microbial Life		***David Harper*** 145 Devonian brachiopods from Great Britain: a review	***Jakub Prokop*** 167 The structure of thorax in Palaeodictyoptera illuminates evolution in early winged insects

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB AUDITORIUM (LT1) **14 Origins: Triassic and Early Jurassic dinosaurs** Chairs: Paul M. Barrett & Jonah N. Choiniere	PARALLEL 3 · NAB 4A **7 Ichnology – traces as multi-disciplinary lenses into the deep past (Invertebrates)** Chairs: Paula Dentzien-Dias & Daniel Sedorko	PARALLEL 6 · BAXTER CONCERT HALL **16 Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 7 · BAXTER REHEARSAL ROOM **10 Devonian stratigraphy, environments and palaeontology with focus on Gondwana** Chairs: Cameron Penn-Clarke, Rob Gess & David Harper	PARALLEL 8 · NAB 2B **15 Paleobionics: the biomechanical factors that drive evolution** Chairs: Bao Tong & Wu Jianing
12:45–13:00	***Khatuna Mikadze*** 616 Cretaceous Ecosystems of Georgia: Integrated Evidence for Paleoenvironmental Change Along the Northern Tethys Margin	***Oliver Rauhut*** 595 Filling a Gap: Sauropodomorph Dinosaurs from the Late Triassic of the Thuringian Basin, Germany	***Zekun Wang*** 397 Software towards quantitative ichnology, and its applications in early animal evolution studies	***Johann Neveling*** 301 Reassessment of the End-Permian Terrestrial Extinction Model at Wapadsberg Pass (Karoo Basin, South Africa)	***Petra Tonarová*** 343 Devonian Scolecodonts of the Prague Basin (Czech Republic)	***Louis Sampson*** 169 The Flight Abilities of the Stem Mayfly Family Syntonopteridae – Insights from Wing Structure and Morphology

13:00–14:00 Lunch Lunch box pickup at Baxter

14:00–15:30 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB AUDITORIUM (LT1) **14 Origins: Triassic and Early Jurassic dinosaurs** Chairs: Paul M. Barrett & Jonah N. Choiniere	PARALLEL 3 · NAB 4A **7 Ichnology – traces as multi-disciplinary lenses into the deep past (Invertebrates)** Chairs: Paula Dentzien-Dias & Daniel Sedorko	PARALLEL 4 · NAB 4D **11 Filling knowledge gaps in the Early Palaeozoic Biodiversification** Chairs: Martina Aubrechtová & Farid Saleh	PARALLEL 5 · NAB STUDIO 1 **6 The Precambrian: the earliest chronicles of life on Earth** Chairs: Jaganmoy Jodder & Kenichiro Sugitani	PARALLEL 6 · BAXTER CONCERT HALL **16 Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 7 · REHEARSAL ROOM **10 Devonian stratigraphy, environments and palaeontology with focus on Gondwana** Chairs: Cameron Penn-Clarke, Rob Gess & David Harper	PARALLEL 8 · NAB 2B **15 Paleobionics: the biomechanical factors that drive evolution** Chairs: Bao Tong & Wu Jianing
14:00–14:15	***Dirley Cortés*** 393 Evolution of Early-Diverging Elasmosaurids from Northern Gondwana	***Paul Barrett*** 121 Dinosaur faunas from the Upper Triassic and Lower Jurassic Karoo Supergroup of Zimbabwe	***Chandre Janse Van Rensburg*** 346 Reading the Fine Print: Possible Bacteria and Associated Extracellular Matrix in Quaternary Fossil Termite Nests	***Alexis Gerbe*** 147 Half-billion-year-old Orsten Fossils Shed Light on the Origin of High Specialisation Toward a Parasitic Lifestyle	***Ryan Nel*** 34 A New Cloudinid Fossil Assemblage from South Africa (Cango Caves Group): Implications for Ediacaran Geochronology, Palaeogeography and Animal Evolution	***Pia Viglietti*** 61 Integrated Bayesian age–depth modelling constrains the Permo–Triassic boundary and vertebrate turnover in the Karoo Basin	***James Zambito*** 578 Cephalopod Taphonomy from the Middle Devonian Milwaukee Formation, Michigan Basin, U.S.A.: Implications for Epibiont Encrustation, Biostratinomic, and Early Diagenetic Processes	***Catherine Strong*** 457 Biorobotic analysis of vertebral form and function, in the context of early tetrapod evolution
14:15–14:30	***Emma Bernard*** 553 Unlocking the UK Chalk Fish Archive: Refining Stratigraphic Provenance through Calcareous Nannofossil Biostratigraphy	***Cecilia Apaldetti*** 481 Sauropodomorph Dinosaurs from the Triassic-Jurassic of Argentina (Marayes-El Carrizal Basin): Diversity, Paleobiology and the Early Evolution Towards Gigantism	***Alejandro Corrales-García*** 311 The lost record: minute and large arthropod trackways from the Burgess Shale	***Taniel Danelian*** 156 Knowledge gaps in the understanding of the early Paleozoic readiolarian plankton diversification	***Ke Pang*** 104 Eukaryotic algal fossil *Arctacellularia* from ~1.0 Ga rocks in North China: implications for the evolution of filamentous multicellularity	***Brenlee Shipps*** 235 The vertebrate fossil record of the Usili Formation (Songea Group, Ruhuhu Basin, Tanzania): recent advances and historical collections	***Robert Gess*** 430 Waterloo Farm, a globally unique record of a high latitude vertebrate fauna and associated biota, during the Late Devonian, Famennian	***Fraser Weston*** 530 Modelling the functional effects of changing caninetooth length in sabre-toothed predators
14:30–14:45	***Chia-Hsin Hsu*** 677 Ecomorphological Diversification of Echinoids throughout the Development of the Cretaceous Chalk Sea	***Celina Suarez*** 350 Chronostratigraphy of the Elliot Formation at the Qhemegha fossil locality	***Luis Buatois*** 239 Animal-substrate interactions in Gondwana during the Late Paleozoic Ice Age: assessing the trace-fossil record to unravel the role of stressors	***Roger Thomas*** 317 The Cambrian Gastropod *Pelagiella* Was a Mollusc: Divergent Morphologies Likely Reflect Adaptive Responses to Novel Torsion and Varied Ecological Opportunities	***Kabi Raj Paudyal*** 250 Stromatolites in the Nepal Himalaya: Stratigraphic Setting and Correlation from Precambrian to Palaeozoic Successions	***Hady George*** 247 A new species of *Dinodontosaurus* from the Manda Beds of Tanzania supports a younger age for the alleged oldest dinosaurs	***Deming Wang*** 436 Devonian explosion of seed plants, their evolutionary divergence and ecology	***Kiersten Formoso*** 643 Shape evolution of the proximal humerus tracks the emergence of underwater flight in penguins

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB AUDITORIUM (LT1) **14 Origins: Triassic and Early Jurassic dinosaurs** Chairs: Paul M. Barrett & Jonah N. Choiniere	PARALLEL 3 · NAB 2A **27 Evolution of brain and cranial anatomy through five major extinctions** Chairs: Sanjukta Chakravorti	PARALLEL 4 · NAB 4D **11 Filling knowledge gaps in the Early Palaeozoic Biodiversification** Chairs: Martina Aubrechtová & Farid Saleh	PARALLEL 5 · NAB STUDIO 1 **6 The Precambrian: the earliest chronicles of life on Earth** Chairs: Jaganmoy Jodder & Kenichiro Sugitani	PARALLEL 6 · BAXTER CONCERT HALL **16 Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 8 · NAB 2B **15 Paleobionics: the biomechanical factors that drive evolution** Chairs: Bao Tong & Wu Jianing
14:45–15:00	***Javier Echevarría*** 44 South Africa, the Key Piece in the Puzzle of Cretaceous Pterotrigoniidae (Trigoniida, Bivalvia)	***Jonah Choiniere*** 603 A newly discovered vertebrate quarry in the Elliot Formation sheds light on end-Triassic extinction dynamics	14:45–15:15 KEYNOTE ***Julia Brenda Desojo*** 392 What do we know about the early diversification of the brain of archosauriforms during the Triassic?	***Martina Aubrechtová*** 615 Missing Pieces in a Puzzle –Significance of the Early Late Ordovician Cephalopods from Estonia	***Gaorong Li*** 333 The Dawn of the Phanerozoic: A Transitional Fauna from the Late Ediacaran of Southwest China	***Stephen McLoughlin*** 340 The structure and ecology of Permian Gondwanan glossopterid forests	***Clemens Zinner*** 713 Description of the intervertebral cartilage volume of the caudal series in crocodilians: Implications for palaeontology and biomechanics
15:00–15:15	***Shiladri S. Das*** 88 Environmental Controls on the Evolution of Morphology, Body Size, and Biogeographic Distribution in the Cretaceous Ammonite Superfamily Acanthoceratoidea	***Ricardo Sacamoto*** 322 Osteology of *Laquintasaura venezuelae* (Dinosauria: Ornithischia) from the La Quinta Formation (Lower Jurassic) of Venezuela		***Javier Álvaro*** 688 Hydrothermal phosphatization drives exceptional preservation in the Cambrian Orsten Konservat-Lagerstätte of Sweden	***Wenfei Cui*** 630 A composite Ediacaran acritarch biostratigraphic sequence of Doushantuo formation in South China constructed by constrained optimization (CONOP)	***Suyash Gupta*** 162 Palynological Insights into the End-Permian Floral Transition in the Gungri Formation, Spiti Basin, Tethyan Himalaya, India: Biostratigraphy and Palaeovegetational Dynamics	***Bailey Weiss*** 668 The Evolution of Terrestrial Archosaur Limb Ratio and Locomotory Posture throughout the Mesozoic
15:15–15:30	***Andrzej Kaim*** 175 Reconciling Fossil Evidence and Molecular Phylogenies in the Early Evolution of Neogastropoda	***Elena Cuesta*** 498 Testing the phylogenetic position of the contentious taxon *Eoabelisaurus* (Early Jurassic, Argentina) in a comprehensive theropod dinosaur matrix	***Sanjukta Chakravorti*** 624 The Recurrent Neurosensory Filter: A Cross-Vertebrate Synthesis of Developmental, Functional, and Environmental Selection Across Five Mass Extinctions		***Wendy Taylor*** 690 Silicification reveals internal structures of an Ediacaran metazoan	***Diego Volosky*** 37 The El Mono Lagerstätte: A Window into a Late Triassic Lacustrine Ecosystem in Western Gondwana	***Kaiki Kobayashi*** 377 The ossified tendons and axial musculature of thescelosaurid dinosaurs (Ornithischia: Pyrodontia)

15:30–16:00 Afternoon coffee break Baxter and NAB

16:00–17:00 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB AUDITORIUM (LT1) **14 Origins: Triassic and Early Jurassic dinosaurs** Chairs: Paul M. Barrett & Jonah N. Choiniere	PARALLEL 3 · NAB 2A **27 Evolution of brain and cranial anatomy through five major extinctions** Chairs: Sanjukta Chakravorti	PARALLEL 4 · NAB 4A **23 Cenozoic vertebrates of Africa** Chairs: Alberto Valenciano & Adam Hartstone-Rose	PARALLEL 5 · NAB STUDIO 1 **6 The Precambrian: the earliest chronicles of life on Earth** Chairs: Jaganmoy Jodder & Kenichiro Sugitani	PARALLEL 6 · BAXTER CONCERT HALL **16 Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 7 · NAB 2B **15 Paleobionics: the biomechanical factors that drive evolution** Chairs: Bao Tong & Wu Jianing
16:00–16:15	***Henry Sharpe*** 670 Reanalysis of Historic Belgian Mosasaurs Revelas New Anatomical, Taxonomic, and Reproductive Data	***Qiannan Zhang*** 594 A new Early Jurassic dinosaur assemblage from Wuding, Yunnan Province, Southwest China	***Archya Dasgupta*** 671 Neuro-Oncology Through Five Major Mass Extinctions	***Alexandra Norwood*** 647 New Insights into *Antidorcas bondi* Dietary Ecology and Extinction from Late Pleistocene Equus Cave	***Zekun Wang*** 732 Mechanical analysis evidences the earliest collagen fibers	***Caitlin Rabe*** 667 Dimensions of *Diictodon*: Cranial and Postcranial Explorations of Ontogeny	***Lynnea Jackson*** 569 Function of imbricated dentitions in sauropodomorph dinosaurs
16:15–16:30	***Nanase Shinomiya*** 255 Dietary Niche Partitioning in Late Cretaceous Marine Reptiles: Evidence from Geochemical and Dental Microwear Texture Analyses	***Diego Pol*** 653 Morphological Evolution in Sauropodomorpha: Patterns of Evolutionary Rates and Character Modularity	***Sergi López-Torres*** 409 Recent advances in our understanding of the sensory system in fossil lorises	***Antoine Souron*** 586 Of Antelhogs and Sealhogs! Factors behind Taxinomic Misattributions: a Reflection Based on Two Case Studies from Quaternary of South Africa	16:15–16:45 *Panel discussion on the future of Precambrian Paleontology*	***Julien Benoit*** 30 The first confirmed embryonated non-mammalian synapsid egg	

TIME	PARALLEL 2 · NAB AUDITORIUM (LT1) **14 Origins: Triassic and Early Jurassic dinosaurs** Chairs: Paul M. Barrett & Jonah N. Choiniere	PARALLEL 3 · NAB 2A **27 Evolution of brain and cranial anatomy through five major extinctions** Chairs: Sanjukta Chakravorti	PARALLEL 4 · NAB 4A **23 Cenozoic vertebrates of Africa** Chairs: Alberto Valenciano & Adam Hartstone-Rose	PARALLEL 6 · BAXTER CONCERT HALL **16 Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny
16:30–16:45	***Richard Butler*** 277 A new heterodontosaurid dinosaur from the Middle Jurassic of Scotland and the hidden diversity of tiny ornithischians	***Stephan Spiekman*** 463 Exquisitely preserved skull of the first ornithosuchid (Archosauria: Pseudosuchia) from the Late Triassic of Germany revealed by micro-CT scanning	***Adam Hartstone-Rose*** 753 The Cenozoic Vertebrates of Africa - moving forward with these new insights	***Luke Norton*** 341 Tooth Replacement and Cranial Ornamentation in the Dwarf Pareiasaur *Pumiliopareia*
16:45–17:00		***Karen Ulloa Guaiquin*** 39 Craniofacial soft anatomy reconstruction of Triassic Archosauriforms of South America and their paleobiological inferences	***Boitshepo Motsodisa*** 680 An Attempt of a Biochronological Reconstruction of three localities at Bolt's Farm Karstic System, Cradle of Humankind, South Africa	

17:00–17:45 PLENARY **Christian Kammerer** Baxter Concert Hall

What the Karoo Basin can and cannot tell us about Permo-Triassic vertebrate evolution and extinction

17:45–18:30 **Poster session 2** Baxter

18:30–19:30 **IPA Ordinary General Meeting** Baxter Concert Hall

20:00 **IPA Council meeting** NAB Studio 2

DAY 2 TUESDAY, 1 DECEMBER 2026

POSTER SESSION 2 · 17:45–18:30

65 posters, grouped by theme. Numbers are abstract (paper) numbers.

07 · Ichnology – traces as multi-disciplinary lenses into the deep past 11

102 ***Olmo Miguez Salas***
Delta tracemaker communities showed specific responses to warming and increase in sediment supply during the Middle Eocene Climatic Optimum

251 ***Amanda Rea***
Continental Ichnology of the Paleogene Claron Formation, Bryce Canyon National Park, Utah, USA: New Insights into the Ichnogenus *Eatonichnus*

298 ***SHANKER LAL NAMA***
Bergaueria prantl, 1945 from the lower jurrasic of jaisalmer basin, india

323 ***Martin Schenardi***
Shallow-Marine Occurrences of *Paleodictyon* and Related Graphoglyptids: Assessing the Interplay of Paleoecologic, Taphonomic, and Evolutionary Controls

326 ***Arthur Moreira***
Taphonomic Analysis of Microbial Mats and Dinosaur Tracks in Arid Deposits of the Mosquito Formation, Early Jurassic, Brazil

367 ***Christopher Harris***
Ichnofauna in the Upper Devonian of South Africa

375 ***Jessica Morstad***
Short term response of spionid polychaete assemblages to acute sediment resuspension events in Barkley Canyon, NE Pacific

418 ***Chantelle R. Edwards***
Morphological and behavioural analysis of Colletid bee cells: implications for the refinement of *Celliforma* ichnotaxonomy

609 ***Davinia Díez-Canseco***
Rosselia-Dactyloidites composite ichnofabric as indicator of a key stratigraphic surface

618 ***Robyn Symons***
Ichnological responses to Middle Devonian biocrises at high-palaeolatitudes in Gondwana: Insights from South Africa

723 ***Renata Netto***
Skolithos, *Rosselia*, or Both? Reexamining the Ordovician Piperocks of Paraná Basin (S Brazil)

10 · Devonian stratigraphy, environments and palaeontology with focus on Gondwana 4

292 ***Rebecca Ruo Sheng***
A new, articulated, early tetrapod from the end-Devonian of Greenland

362 ***Zivile ZIGAITE-MORO***
Visualising biomineral preservation: geochemistry of the Middle Devonian fish microremains from Mimerdalen, central Svalbard

363 ***Christopher Harris***
New fertile Lycopsida from the Upper Devonian in Gondwana

734 ***Abel Ramirez Ampuero***
Revisiting the paleontological record of the Devonian system of Peru

11 · Filling knowledge gaps in the Early Palaeozoic Biodiversification 1

477 ***Yiying Deng***
Diachronous Regional Radiations Underlie the Great Ordovician Biodiversification Event

14 · Origins: Triassic and Early Jurassic dinosaurs 6

40 ***Fernanda Oliveira da Silva***
The Oldest Herrerasaurian Saurischia Dinosaur From the Early Late Triassic of Southern Brazil

160 ***Tetsuya Sato***
Photogrammetric Documentation of the Isolation of Over 300 Vertebrate Fossil Elements within a Single Field Jacket from the Elliot Formation

161 ***Gabriel Gonzalez Barbosa***
Volumetric assessment of cranial adductor musculature in the early sauropodomorph *Buriolestes schultzi* (Late Triassic, Brazil) via 3D modelling

168 ***Lukasz Czepinski***
A new coelophysoid dinosaur from the Late Triassic of Poland

374 ***Justin Lloyd***
Juvenile dinosaur remains from the Pafuri Region, Kruger National Park

388 ***Mateusz Tałanda***
Diverse paleoenvironments restricted the distribution of Triassic dinosaurs

15 · Paleobionics: the biomechanical factors that drive evolution 18

119 ***Yılmaz Kömürcü***
Hydrodynamic Analysis of Swimming Performance of *Spinosaurus aegyptiacus*: A Computational Fluid Dynamics Approach

149 ***Lucas Hariel Martins de Lima***
Preliminary Digital Reconstruction of the Cranial Osteology and Mandibular Musculature of *Acresuchus pachytemporalis* (Alligatoridae: Caimaninae)

190 ***Yuming Liu***
Evolution of cetacean body shape indicates functional trade-off between cruising and agility

248 ***Hady George***
Mandible function across the vertebrate water-to-land transition is underpinned by unossified tissues

284 ***Elizabeth Webb***
Beyond Constraint: Ecological and Phylogenetic Drivers of Mammalian Ribcage Evolution

318 ***Giovanne Cidade***
The Feeding Behavior of *Purussaurus* (Crocodylia, Alligatoroidea, Caimaninae) Based on Bite Force, Feeding Simulations and Maximum Mandibular Opening Analyses

382 ***Annabel Worth***
Morphological Integration and Evolutionary Plasticity in the Mammalian Atlas-Axis Complex

433 ***Oriol Monclús-Gonzalo***
A Partial Least-Squares Regression Approach for Reconstructing Muscle Architecture in Extinct Hominins

475 ***Tahlia Pollock***
Exploring the Functional Limits of Skull Evolution in Domestic Dogs, Wild Canids, and their Fossil Relatives

482 ***Stephanie E. Pierce***
Divergent Ankle Mechanisms Underlie Hindfoot Reversal in Therian Mammals

539 ***Rafael Luiz Fuck Elias***
Digital cranial modeling of the pareiasaur *Provelosaurus americanus* for biomechanical simulations

541 ***Hector Botella Sevilla***
Palaeo-bioinspired robotics and the origin of vertebrate aquatic locomotion

562 ***Mateus Anilson Costa Santos***
Bite Force Estmation and the Function of Pachyostosis on *Pampaphoneus* Biccai

579 ***Richard Buchmann***
Neck Movements of *Terminonaris browni* (Pholidosauridae: Crocodylomorpha) from the Perspective of Finite Element Analysis

620 ***Josep Fortuny***
Dissecting bite forces in lizards: Integrating muscle architecture, PCSA and Myogenerator-based modeling in the insular genus *Gallotia* (Canary Archipelago, Spain)

623 ***Daniel de Simão-Oliveira***
Skull Reconstruction and 3D-Modeling of the Jaw Musculature of a Gryposuchinae Gharial (Crocodylia: Gavialoidea) from the Proto-Amazonian Miocene

625 ***Harry Berks***
High Functional Optimality in Mammalian Jaws Revealed Through Theoretical Morphologies

681 ***Yumi Asakura***
Finite Element Analysis of Chondrichthyes Dental Morphotypes Under a Piercing Scenario

16 · Pangea in crisis: life on land during the Permian–Triassic 9

20 ***Mrutyunjaya Sahoo***
Floral Diversity and Sediment Geochemistry of an Artinskian Gondwana Sequence, Damodar Basin, India: Implications for Age, Climate, and Marine Ingressions

128 ***Adé Ben-Salahuddin***
Ch-Ch-Ch-Chinle Chow Down: Biogeochemical Reconstruction of a Predator-Rich Late Triassic Food Web in Northeastern Arizona

171 ***Felipe Pinheiro***
A new procolophonid from the Lower Triassic Katberg Formation (Karoo Basin) fills a key gap in post-extinction procolophonid recovery

315 ***James Pinto***
Intraspecific variation over 10 million years shows effects of mass extinction on sex and age demography in stem-mammal *Diictodon* feliceps

336 ***Jan Simon-Pražák***
Earliest beetle fossils (Insecta: Coleoptera): review and new discoveries

344 ***Tara Edwards***
The time has come: In-situ U-Pb dating of Permo-Triassic pedogenic carbonates from the Main Karoo Basin

390 ***Kenneth De Baets***
The impact of the Permian-Triassic transition on parasite-host associations as captured in vertebrate coprolites

399 ***Julia Brenda Desojo***
Stable isotopes and associated fauna from the Upper Triassic Ischigualasto Formation at the Hoyada del Cerro Bola, La Rioja, Argentina

454 ***Suresh Singh***
Predator-Prey Regime Shift Shaped Synapsid-Archosauromorph Faunal Turnover across the Permo-Triassic

27 · Evolution of brain and cranial anatomy through five major extinctions 1

441 ***Jacqueline Silviria***
A possible periptychine (Mammalia, Placentalia incertae sedis, Periptychidae) frontoparietal fragment from the Nacimiento Formation (Paleocene, early Danian), New Mexico, USA

30 · General 15

118 ***Oliver Rauhut***
Cranial structure of the Late Jurassic rhynchocephalian *Oenosaurus* (Solnhofen Archipelago, Germany) and its implications for durophagy

164 ***Lewis A. Jones***
palaeoverse: a community-driven R package to support palaeobiological analysis

165 ***Lewis A. Jones***
rmacrostrat: An R package for accessing and retrieving data from the Macrostrat geological database

328 ***William Gearty***
rphylopic: An R Package for Fetching, Transforming, and Visualizing PhyloPic Silhouettes

329 ***William Gearty***
paleopal: A Highly Interactive Shiny App for Building Reproducible Data Science Workflows in Paleontology

347 ***Gabriel Gonzalez Barbosa***
Stab, pull, or spin? How did *Sarcosuchus* (Pholidosauridae, Neosuchia) capture its prey?

353 ***Guillaume Houée***
Assessing the diversity of insect wing venation patterns: a morphogenetic modeling approach

385 ***Mhairi Reid***
The deep divergences of Telluraves, a phylogenetic analysis of morphological characters

427 ***Cy Marchant***
Reassessment of the 'Oldest Amniote' via HRμCT Reveals Novel Anatomy and Challenges the Origins of Amniota

450 ***Katie Davis***
Modelling Avian Extinction Selectivity At The Cretaceous-Paleogene Boundary

502 ***Alison Ward***
Extracting Small Fossils using an Automated Screen Washing Machine

533 ***Bailey Weiss***
An Historically Collected Crocodylomorph Specimen from the upper Elliot Formation of South Africa

547 ***Emma Bernard***
Unlocking Access to a Globally Significant Fossil Vertebrate Collection: Digitization, Research and Conservation at the Natural History Museum, London

651 ***Dominique Hoffmann***
Assess the Effectiveness of No-Coding Platforms for Fossilised Dentition Classification

726 ***Marcia Almeida Rizzutto***
Using Physics Concepts and Techniques to Study Fossil Material

DAY 3 WEDNESDAY, 2 DECEMBER 2026

08:00–08:45 **Registration** Baxter Theatre Centre

08:45–09:30 PLENARY **Jasmina Wiemann** Baxter Concert Hall

Tracing the fates of biomolecules through time and space reveals the origins and evolution of Life

09:45–11:00 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 3 · NAB 4D **25 Freshwater paleoecosystems** Chairs: Bouziane Khalloufi & Olga Otero	PARALLEL 4 · NAB 2B **28 Bridging the molecular gap between life past and present** Chairs: Jasmina Wiemann, Mariana Haase & Pjotr Meyvisch	PARALLEL 5 · BAXTER REHEARSAL ROOM **10 Devonian stratigraphy, environments and palaeontology with focus on Gondwana** Chairs: Cameron Penn-Clarke, Rob Gess & David Harper	PARALLEL 6 · NAB AUDITORIUM (LT1) **4 Recent advances in Mongolian Cretaceous Palaeontology and Geology** Chairs: Ryan Tucker	PARALLEL 7 · NAB 2E **30 General session: Arthropods** Chairs: William Scott & Sandiso Mnguni	PARALLEL 8 · NAB 2A **27 Evolution of brain and cranial anatomy through five major extinctions** Chairs: Sanjukta Chakravorti
09:45–10:00	***Jesús Alberto Díaz-Cruz*** 703 Diversification Rates of Enchodontoidei (Osteichthyes: Aulopiformes) During the Cretaceous Period	***Ryuji Hattori*** 570 Habitat reconstruction of large vertebrate predators in the mid-Cretaceous Kem Kem Group using Sr isotope	***Jasmina Wiemann*** 627 Fossil biomolecules reveal the evolutionary aftermath of the origin of Life	***Alexis Rastier*** 115 Exploring the Devonian–Carboniferous Ecosystem of Bear Island: unravelling its endemic flora and an early fern radiation	09:45–10:05 ***Philip Currie*** 752 History of Dinosaur Hunting in Mongolia	***Hugo Li*** 262 The Forgotten Radiodont of Fossil Ridge: Redescription of *Peytoia nathorsti* Walcott, 1911	***Todd Green*** 178 The benefits of being a bonehead: Testing visual display hypotheses of cranial ornaments in extant and extinct dinosaurs
10:00–10:15	***James Mulqueeney*** 236 Morphological Bottlenecks and Phylogenetic Restructuring Following the End-Cretaceous Mass Extinction	***Pedro Lucas de B. Pruciano*** 263 New Elasmobranch Records from the Rio do Rasto Formation (Guadalupian), Paraná Basin, Brazil	***Mírian Pacheco*** 700 Paleometry applied to frontier studies: covering strategic knowledge gaps in paleobiology and astrobiology	***Peng Xu*** 280 Anatomical assessment of *Guangdedendron micrum* in Late Devonian Xinhang forest and new phylogenetic insights into late Palaeozoic lycopsids	10:05–10:25 ***Mototaka Saneyoshi*** 105 Reconstructing Late Cretaceous Environmental Mosaics and Chronostratigraphic Frameworks in the Gobi Desert, Mongolia	***William Scott*** 267 Morphological Variation and Biostratigraphy of Agnostid Arthropods from the Burgess Shale Formation	***Arthur Moreira*** 240 Insights Regarding the Cranial Anatomy of the Triassic Dicynodont *Dinodontosaurus tener* (Synapsida, Anomodontia) from the Middle Triassic of Brazil
10:15–10:30	***Stewart Edie*** 635 Opportunity and the timing of evolutionary novelty in a 520-million-year animal radiation	***Victor Ribeiro da Silva*** 215 Taphonomy and Paleoecology of a Late Albian Freshwater Bivalve Assemblage, Dalazi Formation, NE China	***Pjotr Meyvisch*** 265 Fossil biomacromolecules place extinct unicellular eukaryotes in the tree of life	***Ryan Nel*** 306 New Insight into the Anatomy, Ontogeny, and Phylogenetics of *Bothriolepis africana*, from the Late Devonian, Waterloo Farm Lagerstätte, South Africa	10:25–10:50 ***Michael Novacek*** 201 Rich Vertebrate Assemblages, including New Fossil Mammals, in the Upper Cretaceous Strata of the Gobi Desert, Mongolia	***Jonatan Audycki*** 354 Challenging the Hypothesis of Freshwater Horseshoe Crabs in the Mesozoic	***Juned Zariwala*** 294 Evolution and origin of the antorbital fenestra (AOF) in Archosauriformes: Insights from preliminary biomechanical analyses
10:30–10:45	***Danijela Dimitrijevic*** 702 The Rare Taxon Effect: Selective Bias in Mass Extinction Severity Across the Phanerozoic	***Bouziane Khalloufi*** 699 The Phetchabun Basin: a Miocene lacustrine ecosystem in Central Thailand	***Nora Corthésy*** 26 The replication of organic matter in aluminosilicates through sulfate reduction and its implication for exceptional fossil preservation	***Amin El Fassi El Fehri*** 316 A Transoceanic Ray-Finned Fish Reveals a High Diversity of Macropredatory Vertebrates in the Latest Devonian	10:50–11:00 *Discussion*	***Jiri Kolibac*** 86 A Three-Dimensional Reconstruction of the First Known Fossil of the Beetle Family Cleridae from Burmese Amber	***Dhurjati Prasad Sengupta*** 521 Braincase Comparison of Two Temnospondyls from the Maleri Formation, India, across the Carnian Pluvial Episode and the Carnian–Norian Turnover
10:45–11:00	***Roger Close*** 351 Global-Scale Diversification Dynamics in Phanerozoic Marine Animals Are Shaped by the Spatial Structure of the Fossil Record	***Andrea Villa*** 132 A Late Cenozoic Humid Refugium in Northwestern Europe?	***Simran Solanki*** 293 Hydrous Pyrolysis of Extant Fish Vertebrae: Experimental Insights into Organic Matter Transformation in Biomineralized Tissues	***Merle Greif*** 400 The giant stem elasmobranch *Ctenacanthus concinnus* supports faunal turnover before the end-Devonian extinction		***Sandiso Mnguni*** 4 The first complete fossil aphid in Africa from a Cretaceous crater lake inside the Orapa Diamond Mine in Botswana	***Daniel Smith Paredes*** 536 Reassessment of the Homologies of the Developing Amniote Chondrocranium

11:00–11:30 **Morning coffee break** Baxter and NAB

11:30–13:00 PARALLEL SESSIONS

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11:30–11:45	***Devapriya Chattopadhyay*** 7 Spatial Aggregation in Marine Ecosystem during Phanerozoic and its Ecological Implications	***Paula Dentzien-Dias*** 158 The micro-universe of vertebrate coprolites and their rare content	***Olga Otero*** 550 Reconstructing Freshwater Paleo-landscape from an Integrated Faunal Perspective, the Toros-Menalla (Late Miocene, Chad) Case Study	***Jesús Marugán-Lobón*** 199 Unlocking Molecular Preservation at the Las Hoyas Konservat-Lagerstätte: Lipid Biomarker and Isotope Insights into an Early Cretaceous Wetland	***Darja Dankina*** 157 3D Reconstruction of a Devonian osteichthyan from the Siberian Platform	***Eric Roberts*** 412 Stratigraphy and paleoecology of the richly fossiliferous Zos Formation, a new Upper Cretaceous unit from the Nemegt Basin, Mongolia	***Xiaoting Xu*** 96 Paper Wasps (Hymenoptera: Vespidae, Polistinae) from Xiede (Eocene, Central Tibetan Plateau): Systematics and Paleoecological Implications	***Dawid Drozdz*** 695 Dynasties of Triassic dicynodonts: how to study the drivers behind the global succession of various subclades over time
11:45–12:00	***Luke Strotz*** 241 Volatility, Contingency, and Incumbency: How and Why Shocks to the System Shape Macroevolution	11:45–12:15 ***Kyla Beguesse*** 735 A Veterinary Pathologist's Approach to Vertebrate Paleopathology	***Jan Hinkelman*** 103 A Preliminary Insight into the Quaternary Zoological Subfossils From the Karstic Lake Vrana (Croatia)	***Emanuel Tschopp*** 170 Biomarkers Are Promising Tools for Paleoecological Reconstructions in Sauropod Dinosaurs	***Rebecca Ruo Sheng*** 291 An unexpectedly robust sacrum from an end-Devonian early tetrapod	***William Wolfe*** 483 Re-examining Paleogene & Cretaceous Vertebrate Fossil Localities in the Western Gobi, Mongolia: Utilizing Geochronology to Resolve Contradictory Biostratigraphy	***Soobin Lee*** 254 New Records of Micropeplinae and Steninae Rove Beetles (Coleoptera: Staphylinidae) from Mid-Cretaceous Burmese Amber	***Stephan Spiekman*** 466 A new skull of *Howesia browni* from the early Middle Triassic of South Africa: implications for rhynchosaur skull evolution
12:00–12:15	***Alessio Capobianco*** 629 Total-Evidence Tip-Dating Reveals Macroevolutionary Dynamics in Deep-Sea Squaliform Sharks			***Harsha Dhiman*** 584 Preservation Of Nitrogen-bearing Organic Molecules In The Late Cretaceous Titanosaur Eggshells	***Per E. Ahlberg*** 232 A New Devonian Tetrapod Assemblage from Greenland Illuminates Vertebrate Terrestrialisation	***Ryan T. Tucker*** 209 Establishing the first radiometrically calibrated framework for the Cretaceous Gobi Basin	***Csaba Hefler*** 271 The Evolution of the Wing Morphology in Odonatoptera	
12:15–12:30	***Donald Davesne*** 621 The teleost fish fauna of Elam (Eocene of Iran): an exceptional glimpse into Paleogene deep-sea ecosystems	***Alexis Cornille*** 672 Skeletal Pathologies in Phytosaurs: A Large-Scale Paleopathological Survey and Comparison with Extant Crocodylians		***Mariana Haase*** 506 Molecular convergence enabled multiple origins of eggshell mineralization in archosaurs		***Kira Venter*** 548 U-Pb Fossil Eggshell Geochronology and Paleoenvironmental Reconstruction of the Teel Ulaan Chaltsai Fossil Locality, East Gobi Basin of Mongolia		
12:30–12:45		***Flávio Pretto*** 499 Micro-CT Investigation of the Splenial 'Foramen' of the Lectotype of *Prestosuchus chiniquensis*: Trauma-Induced Bone Modification?		***Raphael Moreno*** 245 Extraction and Detection of Heme and Its Degradation Products from Fossil Bone		***Eva Koppelhus*** 458 What Fossil Plants Indicate About Cretaceous Environments in the Gobi Desert of Mongolia		
12:45–13:00		***Christiana Garros*** 719 Orodental pathologies in *Mosasaurus hoffmannii* (Reptilia: Squamata)		***Kliti Grice*** 751 Molecular Windows into Deep Time: Biomarkers, Exceptional Fossil Preservation and the History of Life		***Stephen Finch*** 27 Comparison of Macrofossil vs Microfossil Taxonomic Recovery from Two Bayanshiree Formation Vertebrate Assemblages: Implications for the Mid-Cretaceous Diversity of Mongolia		

13:00–14:00 **Lunch** Lunch box pickup at Baxter

14:00–17:30 SINGLE SESSION · FREE AFTERNOON FOR OTHER DELEGATES

21 Communicating palaeosciences · Baxter Concert Hall

14:00–14:05	Welcome
14:05–14:20	KEYNOTE ***Bolortsetseg Minjin*** 573 Building Awareness of Mongolia's Dinosaur Heritage
14:20–14:35	***Karen Ulloa-Guaiquin*** 565 Decolonizing paleontology from Wallmapu: scientific nomenclature and cartography as tools for intercultural communication
14:35–14:50	***Amanda B. Esterhuysen*** 403 Narrative Drift in Palaeoanthropology: When to Call Bullshit?
14:50–15:05	***Elizabeth Chacón-Baca*** 576 Palaeontology today: examples of its ongoing significance across cultural, scientific, and social contexts
15:05–15:20	***Wendy L. Taylor*** 619 Museum Objects as Catalysts for Curiosity: Arts-Integrated Children's Programs for Natural History Learning
15:20–15:35	***Cecilia Apaldetti*** 480 Communicating Palaeontology in the First-Person
15:35–15:50	**Showcasing two new South African museums** ***Bruce Rubidge*** 380 Setting up Karoo Origins: A New Palaeontological Exhibition, Outreach and Research Centre in Rural South Africa ***Kimberley E.J. Chapelle*** 526 Kgodumodumo: Dinosaur Interpretation Centre, Free State, South Africa
15:50–16:10	Afternoon coffee break and poster sessions Baxter and NAB
16:10–16:25	KEYNOTE ***Fredrick Kyalo Manthi*** 405 Promoting Paleosciences in Africa: The Case of Kenya
16:25–16:30	***Gregory P. Dietl*** 381 Beyond Translation: Co-producing Decision-Support Tools in a Conservation Paleobiology Partnership
16:30–16:35	***Joseph A. Frederickson*** 549 Dinosaur Nicknames in North American Museums
16:35–16:40	***Anusuya Chinsamy-Turan*** 599 Participation and Engagement in Two PalaeoScience Massive Open Online Courses
16:40–16:45	***Robert S Sansom & Jane C Reeves*** 633 How to start a paleo-podcast: Lessons from "The Fossil Files"
16:45–16:50	***Martin E. Farina*** 645 Paleontología Inmersiva: A 360° Approach to Paleontological Science Communication
16:50–16:55	***Briana Pobiner and Richard Potts*** 10 The Smithsonian Human Origins Program's approach to culturally sensitive public outreach about human evolution
16:55–17:00	***Mark Jonathan Beech*** 76 Communicating palaeosciences at the Natural History Museum Abu Dhabi
17:00–17:05	***Tahnee Otto*** 416 Mapping Science Engagement in South Africa: Implications for Communicating Paleosciences Beyond Academic Spaces
17:05–17:10	***Lene Delsett*** 260 Voices from deep time in an age of emergencies
17:10–17:15	Closing remarks: Marina Joubert
17:15–17:30	**Poster session (Theme 21 – Communicating palaeosciences only)** Baxter
	Light refreshments
18:00–20:00	**Communicating palaeontology (Workshop) focus group** Rehearsal Room

DAY 3 WEDNESDAY, 2 DECEMBER 2026

THEME 21 POSTER SESSION · 17:15–17:30

11 posters, grouped by theme. Numbers are abstract (paper) numbers.

21 · Communicating palaeosciences 11

21 ***Priya Agnihotri***
Amber Windows To Earth's Past: Communicating Ancient Tropical Forests And Climate Change Through Eocene Amber Fossils Of India

74 ***Roger D K Thomas***
Birds Are Not dinosaurs, and It Matters!

94 ***Sreemoyee Chakraborty***
Adolescent Researchers Decode Ancient Seas: Teenagers Classifying Taphonomic Patterns In Eocene Larger Benthic Foraminifera From Fulra Limestone, Kutch Basin, India

120 ***Cecily Nicholl***
palaeoverse.zulipchat.com: a New Community Forum for Palaeontologists

225 ***Alessandro Paolo Carniti***
The "Regional Fossils" initiative in Italy: enhanced valorization of the fossil heritage through community engagement and digital platform

243 ***Ningnung Jakoinao***
The Himalayas as Refugia, Then and Now: Balancing Conservation and Scientific Research in a Troubled Landscape

442 ***Florencia Cesilia***
The Amazing Fossils of the Kiyú Cliffs: Informational Signage and Augmented Reality

582 ***Anne Schulp***
3D-Modelling a Mosasaur: Challenges in Museography

717 ***Javiera Delgado-Carrillo***
Exploring the Past to Inspire the Future: Paleontological Education for Gifted, talented and Twice-Exceptional Students in Program ALTA UACh

721 ***Sanjukta Chakravorti***
Fossils Without Borders: Rising Sun Over Gondwana: Storytelling and Shared Conservation Across an Ancient Lineage

728 ***Elizabeth Chacon-Baca***
Convergence between Astrobiology and Palaeontology from a multidisciplinary network perspective

DAY 4 THURSDAY, 3 DECEMBER 2026

08:00–08:45 **Registration** Baxter Theatre Centre

08:45–09:30 PLENARY **Gabriela Mángano** Baxter Concert Hall
Rethinking Burgess Shale ichnofaunas in the context of the Cambrian Explosion

09:45–11:00 PARALLEL SESSIONS

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE 5 **Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB STUDIO 2 7 **Ichnology – traces as multi-disciplinary lenses into the deep past (Vertebrates)** Chairs: Arturo Heredia & Miengah Abrahams	PARALLEL 3 · BAXTER REHEARSAL ROOM 30 **General session: Mesozoic Dinosaurs, Pterosaurs, etc** Chairs: Susannah Maidment & Jordan Mallon	PARALLEL 4 · NAB 2B 24 **Neogene primates and the origin and evolution of Hominidae** Chairs: Marine Cazenave & Tracy Kivell	PARALLEL 5 · NAB 4D 30 **General session: Mammals** Chairs: Ana Valenzuela-Toro & Suresh Singh	PARALLEL 6 · NAB 2E 13 **Ichthyosaur evolution and biology** Chairs: Lene Liebe Delsett & Judith Pardo-Pérez	PARALLEL 8 · BAXTER CONCERT HALL 16 **Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 9 · NAB 4A 1 **Major biotic events during the Ordovician and Silurian and their dynamics** Chairs: Renbin Zhan & Alycia Stigall
09:45–10:00	***Cristina Robins*** 428 Biodiversity and Paleoenvironmental Distribution of Squat Lobsters (Decapoda: Anomura: Galatheoidea), Focusing on the Paleocene	***Martin Ezequiel Farina*** 52 Deep-Time Patterns of Avian Ichnodisparity in Gondwana	***Kyle Obuszewski*** 659 New Cenomanian-Santonian occurrences of Ceratopsoidea (Dinosauria, Ornithischia) redefine the Mid-Cretaceous ceratopsian record of North America	09:45–10:15 KEYNOTE ***Palesa Madupe*** 515 Time-traveling proteins: A nuanced story of *Homo naledi*	***Ana Valenzuela-Toro*** 395 A New Pliocene Monachine Fossil From Central Chile and Its Implications for Southern Seal Biogeography	09:45–10:15 KEYNOTE ***Valentin Fischer*** 133 Not just fish-shaped; let's quantify ichthyosaurian macroevolution	***Andrew Bolton*** 711 Finite Element Analysis and Pathological Evidence for Headbutting Behavior in Dinocephalian Therapsids	***David Harper*** 404 Hanging on by a pedicle: Disa Member (Cedarberg Formation) Brachiopods suggest end of the line for the high-latitude *Hirnantia* fauna
10:00–10:15	***Kazuyoshi Moriya*** 461 Depth habitat of the late Eocene planktic foraminifers	***Roger Smith*** 60 Walking, Wading and Swimming Temnospondyls Interpreted from a Mid-Permian Palaeosurface in the Southern Karoo Basin, South Africa	***Susannah Maidment*** 228 New Discoveries Shed Light on Iguanodontian Dinosaur Diversity in the Lower Cretaceous Wealden Group of Southern England		***Sukuan Hou*** 517 Chinese *Kubanochoeres*: A Review of Their Systematics, Evolution, Biostratigraphy, Paleogeography, and Paleoecology		***Peter Bishop*** 233 Dynamic Simulations Reveal a Long and Complex History to the Sprawling-to-Erect Postural Transition in Synapsids	***Yan Liang*** 342 The functional morphology of chitinozoan plugs revealed by high-resolution imaging techniques
10:15–10:30	***Steffen Kiel*** 300 Evolution of Kelp Ecosystems in the North Pacific Ocean	***Paulomee Guha*** 65 Oldest Dinosaur Ichnites From The Lower Jurassic Freshwater Carbonates Of Gondwana	***Laura Rooney*** 334 An Exceptional *Allosaurus* Specimen with Diverse Soft Tissue Fossilization from the Morrison Formation of Wyoming, USA	***Clément Zanolli*** 305 Pliocene biogeography of *Australopithecus*	***John Orcutt*** 534 Paleoenvironment and Locomotion of the Desmostylian *Behemotops proteus*	***Neil Kelley*** 634 All in the family: what family-level taxonomy reveals about the evolution of ichthyosaurs and shifting scientific practices	***Leticia Rezende De Oliveira*** 50 Hindlimb Performance Estimation and Biomechanical Tests of Posture for the Giant Archosaur *Prestosuchus chiniquensis* of Southern Brazil (Middle Triassic)	***Yuchen Zhang*** 49 The Late Ordovician (Katian) *Salairella latecostellata* (Brachiopoda) in central Mongolia: taxonomy and evolutionary implications
10:30–10:45	***Monica Buono*** 560 Early Evolution of Filter-Feeding in Baleen Whales: Key Traits and Transformations Revealed by Fossils, Phylogeny, and Biomechanics	***Christian Meyer*** 98 Ankylosaurian tracks from the Late Cretaceous of Bolivia - Lifting the Veil of Preservation	***Corwin Sullivan*** 580 A New Skull of the Hadrosaurid *Lambeosaurus magnicristatus* from the Upper Cretaceous Wapiti Formation of Canada, and its Palaeoecological Implications	***David R. Begun*** 365 Hominine diversity in the Miocene and Plio-Pleistocene	***Suresh Singh*** 561 Functional Reorganization of South American Carnivore Guilds Across the Cenozoic	***Gary McGaughey*** 574 Ichthyosauromorphs are stem-group reptiles	***Antoine Logghe*** 473 A Permian Lost World: Exceptional Record of Continuous Early-Middle Permian Tetrapod-bearing Paleoecosystems Within the Lodève Basin, Southern Massif Central (France)	***Yong Wang*** 47 A new Katian bivalve association with body fossils from the upper Koumenzi Formation of Qilian Mountains, NW China

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10:45–11:00	***Martin Chavez-Hoffmeister*** 697 New Insights into the Bahía Inglesa Formation: An exceptional Neogene site of Northern Chile	***Raul Esperante*** 174 Not so fast: the largest track database from Bolivia shows the speed of theropod dinosaurs	***Henry Sharpe*** 694 Mosaic evolution confounds systematic paleontology: a worrying example from Hadrosauridae (Reptilia: Dinosauria)	***Melania Ioannidou*** 453 Integrating Dental Evidence in *Ouranopithecus macedoniensis*: Implications for Late Miocene Hominoid Evolution	***Danhui Sun*** 137 Revisiting the Miocene Radiation of East Asian Rhinocerotids: New Evidence from Taxonomy, Phylogeny, and Paleoecology	***Yi-Wei Hu*** 488 Osteohistology and microanatomy of Early Triassic *Sclerocormus* provides new insights into the early evolution of Ichthyosauriformes	***Josep Fortuny*** 217 Faunal Turnovers, Mass Extinctions and Biotic Recovery in Central Pangea: Permian to Middle Triassic Terrestrial Vertebrates from NE Iberia	***Selina Cole*** 272 Prevalence, patterns, and processes of the Lilliput Effect across the Late Ordovician mass extinction: a global, cross-clade synthesis

11:00–11:30 Morning coffee break Baxter and NAB

11:30–13:00 PARALLEL SESSIONS

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11:30–11:45	***Giorgio Caniggia-Soria-Galvarro*** 710 Reconstructing Pliocene Marine Paleoenvironments in Chile Using Fossil Fish and Mollusk Assemblages	***Emma Nicholls*** 194 Footsteps Through Time: Expansion and Re-Evaluation of UK's Largest Dinosaur Tracksite	***Peter Makovicky*** 258 New Volcanic Lake Fossil Lagerstätten from the Late Cretaceous/ Early Paleogene of Northern Cape, South Africa	***Marta Pina*** 459 An Exceptionally Preserved Partial Skeleton of *Nacholapithecus kerioi* Refines Miocene Hominoid Locomotion	***Ningnung Jakoinao*** 242 Bones to Pick: Proboscidean Remains from the Karewas of Kashmir and their Implications	***Yi-Wei Hu*** 532 The origin and early evolution of Ichthyosauriformes informed by new fossils from the Lower Triassic of South China and Svalbard		***Jun Liu*** 69 Diverse Late Permian Tetrapod Fauna from North China	***Yi Wang*** 186 Great Ordovician Biodiversification Event (GOBE): From local to global investigations for 30 years
11:45–12:00	***Pamod Liyanagedara*** 282 Assessing Species Delimitation in the Recent and Fossil Sand Dollar *Encope* (Echinoidea) Using Geometric Morphometrics	***Dmitri Ponomarenko*** 321 Bioglyphs in rodent burrows: Implications for classifying vertebrate domiciles and for unraveling digging behavior	***Viktor Radermacher*** 529 New Elasmarian remains from a Late Cretaceous crater lake deposit in the Northern Cape of South Africa	***Samar M. Syeda*** 489 Hominin Manual Behaviors at Sterkfontein and Swartkrans, South Africa: Insights from Phalangeal External and Internal Bone Morphology	***Luke Meade*** 465 Adaptations for arboreality and carnivory in an exceptionally preserved Middle Jurassic eutriconodont mammal from Skye, Scotland	***Petter Nordenhaug*** 501 Resolving a Century of Taxonomic Confusion: New Mixosaurid Diversity from Svalbard		***Eudald Mujal*** 402 Paleoenvironmental and climate evolution of the Middle Triassic vertebrate lagerstätte of Michelbach (Lower Keuper, Erfurt Formation), Germany	***Alycia Stigall*** 410 Emerging understanding of ecological impacts of the Late Ordovician Richmondian Invasion in the Nashville Dome of eastern Laurentia

TIME	PARALLEL 1 · BAXTER PAM GOLDING THEATRE **5 Life in the Phanerozoic Oceans: Evolution, diversity and ecology in deep time marine ecosystems** Chairs: Baran Karapunar & Alessio Capobianco	PARALLEL 2 · NAB STUDIO 2 **7 Ichnology – traces as multi-disciplinary lenses into the deep past (Vertebrates)** Chairs: Arturo Heredia & Miengah Abrahams	PARALLEL 3 · BAXTER REHEARSAL ROOM **30 General session: Mesozoic Dinosaurs, Pterosaurs, etc** Chairs: Susannah Maidment & Jordan Mallon	PARALLEL 4 · NAB 2B **24 Neogene primates and the origin and evolution of Hominidae** Chairs: Marine Cazenave & Tracy Kivell; from 12:45 Robyn Pickering & Rebecca Ackermann	PARALLEL 5 · NAB 4D **30 General session: Mammals** Chairs: Ana Valenzuela-Toro & Suresh Singh	PARALLEL 6 · NAB 2E **13 Ichthyosaur evolution and biology** Chairs: Lene Liebe Delsett & Judith Pardo-Pérez	PARALLEL 7 · NAB AUDITORIUM (LT1) **4 Recent advances in Mongolian Cretaceous Palaeontology and Geology** Chairs: Terry Gates & Alfio Alessandro Chiarenza	PARALLEL 8 · BAXTER CONCERT HALL **16 Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 9 · NAB 4A **1 Major biotic events during the Ordovician and Silurian and their dynamics** Chairs: Renbin Zhan & Alycia Stigall
12:00–12:15	***Moriaki Yasuhara*** 514 Climatic Forcing of the Southern Ocean Deep-Sea Ecosystem	***Anthony Martin*** 372 Trace Fossils of the Wonthaggi Formation (Victoria, Australia) as Paleoecological Indicators in Early Cretaceous Circumpolar Continental Environments	***Andrew Moore*** 126 New Insights into the Cranial Anatomy and Phylogenetic Affinities of *Abrosaurus dongpoensis* (Dinosauria: Eusauropoda) from the Late Jurassic Lower Shaximiao Formation of China	***Alexander Stoessel*** 520 Mouse Models and Early Hominin Hearing: Bridging Cochlear Morphology to Auditory Function	***Mairin Balisi*** 602 Response of a Medium-Sized Mammalian Carnivore, the Bobcat *Lynx rufus*, to Ecosystem Change from Late Pleistocene to Urban Anthropocene	***Wei Wang*** 85 *Mixosaurus* Bearing A Large Number of Fetuses and Implications for The Reproductive Strategy of Early Ichthyosaurs		***Randal Irmis*** 448 The Rise of Fully-Terrestrial Tetrapod Communities in the Pangean Paleotropics During the Late Paleozoic Ice Age	***Xiaocong Luan*** 226 High Resolution δ13Corg MDICE Recorded in the Jiangnan Slope, South China: Implications for Paleoenvironmental Origins
12:15–12:30	***Michal Kowalewski*** 67 The Scale and Drivers of Time Averaging in Marine Fossil Assemblages	***Arturo Heredia*** 698 Sauropod tracks with skin-slide traces from the Bajo de la Carpa Formation (Upper Cretaceous) of norther Patagonia, Argentina	***Jordan Mallon*** 357 Head Carriage in Horned Dinosaurs	***Miccaella E. V. Cereghino*** 538 Developmental Anatomy of the Human Trunk and Lower Limb Musculature: Insights into the Evolution of Bipedal Locomotion	***Bin Bai*** 737 Two mesonychid skeletons from the lower Paleocene of China	***Feiko Miedema*** 555 New Insights into Ichthyosaur Reproductive Strategy and an Effect of Pregnancy on bone Micro-anatomy		***David P. Groenewald*** 38 The Second Burnetiamorph Therapsid from the Late Permian *Daptocephalus* Assemblage Zone in the Main Karoo Basin, South Africa	***Claire Browning*** 605 Trace fossils in the Late Ordovician Soom Shale Lagerstätte offer a glimpse into a cryptic world of survivors
12:30–12:45	***Kenneth De Baets*** 391 Body Size Reduction Is a General Response to Environmental Crisis but Amplified by Warming	***Verónica Krapovickas*** 739 Testing Locomotor Hypotheses in Jurassic Mammaliaforms: Integrating Biomechanical Simulations with Fossil Trackways	***Francisca Beltrán Echeverría*** 652 Paleowildfire evidence from the Early Cretaceous 'Cerro Rosado Petrified Forest', Chilean Patagonia	***Shahed Nalla*** 738 Shaping Hominin Torso Morphology - Costal elements from Malapa	***Owen Goodchild*** 206 Afrotheres at the Ends of The Earth: Revisiting the Taxonomy, Phylogeny, and Biogeography of American Bunodont Proboscideans	***Judith Pardo-Pérez*** 398 CT-based Insights into Pregnancy, Fetal Development and Neonatal Ecology of *Myobradypterygius hauthali* (Reptilia: Ichthyosauria) from Early Cretaceous of Chilean Patagonia	***Emily Cross*** 24 Trophic Structure of Ecosystems in Asia and Western North America After the Cretaceous Thermal Maximum as Revealed by Isotope Ecology	***Spencer Pevsner*** 79 A New Skeleton of the Gorgonopsian *Aelurognathus tigriceps* with Novel Insights into the Pelvic Girdle, Hind Limbs, and Tail	***Yichi Zhang*** 16 Ordovician ostracod diversity dynamics
12:45–13:00			***Ricardo Pérez-de la Fuente*** 415 Fossilized Emulsions of Sap and Resin in Cretaceous Amber: Future Prospects	***Gabriele A. Macho*** 219 An eco-evolutionary dynamics approach to explain early hominin diversity in southern Africa	***Benyamin Shidqi*** 93 Taxonomic Assessment of Pleistocene Mammals from Ngalau Sirantai (Western Sumatra, Indonesia): Implications for Late Quaternary Faunal Patterns in Sumatra	***Timothy Bromage*** 327 Jurassic Ichthyosaur Paleometabolomes yield Metabolic and Ecologic Insights on a Lifestyle Evolutionarily Convergent with Deep-Diving Toothed Whales	***Lukasz Czepinski*** 166 Re-examination of *Graciliceratops mongoliensis* from the Late Cretaceous of Mongolia and its implications for the evolution of neoceratopsian dinosaurs	***Alienor Duhamel*** 646 New middle Permian fossil sheds light on therocephalian early morphological evolution and homoplasy of eutheriodonts	***Lars Tischer*** 279 Synsedimentary Sphalerite (ZnS) Formation during Positive Carbon Isotope Excursions and Their Link to Ordovician and Silurian Extinction Events

13:00–14:00 Lunch Lunch box pickup at Baxter

14:00–15:30 PARALLEL SESSIONS

TIME	NAB 2A **Palaeoverse – R for Paleobiologists** Presenters: Lewis A. Jones, Bethany Allen & Harriet B. Drage	PARALLEL 2 · NAB STUDIO 1 **30 General session: Invertebrates** Chairs: Luis Torres & Marine Fau	PARALLEL 3 · BAXTER REHEARSAL ROOM **30 General session: Mesozoic Dinosaurs, Pterosaurs, etc** Chairs: Susannah Maidment & Jordan Mallon	PARALLEL 4 · NAB 2B **24 Neogene primates and the origin and evolution of Hominidae** Chairs: Robyn Pickering & Rebecca Ackermann	PARALLEL 5 · NAB 4D **30 General session** Chairs: Harriet Nuttall & Alistair Evans	PARALLEL 6 · NAB 2E **13 Ichthyosaur evolution and biology** Chairs: Lene Liebe Delsett & Judith Pardo-Pérez	PARALLEL 7 · BAXTER CONCERT HALL **16 Pangea in crisis: life on land during the Permian–Triassic** Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 8 · NAB 4A **1 Major biotic events during the Ordovician and Silurian and their dynamics** Chairs: Renbin Zhan & Alycia Stigall	PARALLEL 9 · NAB AUDITORIUM (LT1) **4 Recent advances in Mongolian Cretaceous Palaeontology and Geology** Chairs: Terry Gates & Alfio Alessandro Chiarenza
14:00–14:15	*Palaeoverse – R for Paleobiologists: preparing and exploring fossil data for analysis with the palaeoverse R package*	***Hyungjoo Jang*** 106 Tracking Seagrass Decline using Conservation Paleobiology: Live-Dead Mollusk Comparisons Reveal Spatial Homogenization and Faunal Shifts in Tampa Bay, Florida	***Jacqueline Silviria*** 440 An exceptional microfossil record across the Cretaceous/Paleogene boundary in eastern Montana demonstrates stepwise recovery of mammals after non-avian dinosaur extinction	***Tyler Faith*** 278 Palaeoanthropology beyond the Cradle: investigation of fossil-rich Pleistocene cave deposits in South Africa's Cango Valley	***Harriet Nuttall*** 71 Does fieldwork polarize or unite us? The findings of the #Yourpalaeolife II survey of established palaeontological researchers	***Dirley Cortés*** 394 High ecomorphological disparity in Cretaceous ichthyosaurs	***Alessandro Gigliotti*** 613 Newly described palatal morphology of *Choerosaurus dejageri* (Therocephalia: Baurioidea) and secondary palate convergence in therocephalians and cynodonts	***Yunong Cui*** 184 The Classification and Macroevolution of Heliolitine plasmoporellicans (Late Ordovician–Wenlock)	***Peter Makovicky*** 90 A New Species from Mongolia Informs the Evolutionary Mode and Biogeographic Patterns of Protoceratopsid Dinosaurs
14:15–14:30		***Luis Torres*** 310 Time averaging on modern seafloors: A comparative analysis of irregular echinoids, bivalves, and their fragments	***Wafa Alhalabi*** 143 Recovering Lost Time in Syria: The first Pterosaur remains from the Palmyrides Mountain Chain	***Christa Kuljian*** 25 Contesting Raymond Dart's Legacy: The Taung Skull and Scientific Racism	***Zhiqing Guo*** 107 Elevated rates of phenotypic and molecular evolution in animals during the Ediacaran-Cambrian boundary	***Jair Israel Barrientos-Iara*** 666 The Record of the Ichthyosaurs in Mexico and the New Discoveries	***Brandon Stuart*** 516 New Baurioid Therocephalian Records from the *Lystrosaurus declivis* Assemblage Zone of South Africa and their Implications for Bauriamorph Evolution	***Muhammad Aqqid Saparin*** 324 Integrated graptolite biostratigraphy and geochemistry reveal faunal turnover and environmental change across the Ordovician–Silurian transition in Sibumasu Terrane	***Junki Yoshida*** 425 Structural mechanics of the earliest dome-headed dinosaur *Zavacephale*, and the origin of the head-butting behavior
14:30–14:45		***Leonardo Pérez Barría*** 669 New Nuculidae (Mollusca, Protobranchia) from the Lower Miocene of southern Chile help to improve the evolutionary understanding of shell morphology	***Felipe Pinheiro*** 198 Unexpected tail dimorphism in a short-faced pterosaur from the Jurassic of China	***Clément Zanolli*** 304 Combining biochemistry and virtual imaging to unravel the evolution of *Paranthropus* in southern Africa	***Lara Uttinger*** 189 Trace Fossils as Windows into Ediacaran–Cambrian Biodiversity: Global Patterns and Palaeogeographic Controls	***Javiera Delgado-Carrillo*** 701 From morphology to functionality: analysis of ophthalmosaurian fins (Reptilia: Ichthyosauria) from the Early Cretaceous of Torres del Paine, Southern Chile	***Juliana Edwards*** 610 Novel Taxonomic Diversity and Skeletal Association in the Permian/Triassic Koonya Temnospondyl Bonebed (Tasmania, Australia)	***Qi-jian Li*** 531 Ecological succession within one of the earliest Silurian coral–stromatoporoid reefs in South China	***Ryuji Takasaki*** 68 Hadrosauroid diversity in the Late Cretaceous Bayanshiree Formation, Mongolia
14:45–15:00		***Marine Fau*** 729 Reassessing The Fossil Record Of Starfish (Asteroidea): Biases, Challenges, And Limitations	***Vivi Vajda*** 274 From Gondwana to the Gulf of Mexico: New Perspectives on the End-Cretaceous Mass Extinction	14:45–15:30 *Panel Discussion New Directions in African Palaeoanthropology*	***Alistair Evans*** 275 Evo-devo Rules in Deep Time: the Power Cascade in Teeth, Horns and Beaks	***Samir Cancel-Matos*** 268 Multiple Imputation, Multiple Regression, and Ensemble Approaches to Estimating Body Size within Ichthyosauromorpha	***Arnaud Rebillard*** 196 The First Bone-Bearing Coprolites From Bromacker (Early Permian, Germany) Reveal Exceptional Preservation of Skeletal Remains	***Guangxu Wang*** 276 Modernizing the Paleozoic coral record: A global collaborative revision of the Treatise (Part F, Rugosa and Tabulata)	***Alfio Alessandro Chiarenza*** 35 Redescription of *Opisthocoelicaudia skarzynskii* sheds light on titanosaurian evolution, dispersal, and ecological responses to Cretaceous hyperthermal conditions
15:00–15:15		***Orla Bath Enright*** 639 Mesozoic medusae from the Grès à Voltzia Lagerstätte offer insights into spatial shifts in carbonaceous preservation	***Jia Jia*** 587 New Late Jurassic salamander from Utah, USA, provides insights into the early evolution of crown-clade salamanders			***Lene Liebe Delsett*** 259 Ichthyosaurs of the Anthropocene? Convergent evolution in whales and ichthyosaurs	***Valentin Buffa*** 297 Overlooked Diversity in the Late Permian South African Younginidae		***Gorm Raun*** 320 The Supreme Ruler of Cretaceous Mongolia: A new Species of *Tarbosaurus* (Theropoda: Tyrannosauridae) and Relationships of Asian Tyrannosaurids

TIME	PARALLEL 7 · BAXTER CONCERT HALL 16 Pangea in crisis: life on land during the Permian–Triassic Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 9 · NAB AUDITORIUM (LT1) 4 Recent advances in Mongolian Cretaceous Palaeontology and Geology Chairs: Terry Gates & Alfio Alessandro Chiarenza
15:15–15:30	***Gabriela Sobral*** 545 A New Specimen of *Claudiosaurus*: Preliminary Links Between Anatomy, Ontogeny, and Adaptations to Aquatic Habits	***Chinzorig Tsogtbaatar*** 72 A Review of Ornithomimosaur Dinosaurs (Theropoda: Maniraptoriformes) of Mongolia

15:30–16:00 Afternoon coffee break Baxter and NAB

16:00–16:45 PARALLEL SESSIONS

TIME	NAB 2A Palaeoverse – R for Paleobiologists Presenters: Lewis A. Jones, Bethany Allen & Harriet B. Drage	PARALLEL 2 · NAB 2B 24 Neogene primates and the origin and evolution of Hominidae Chairs: Robyn Pickering & Rebecca Ackermann	PARALLEL 3 · NAB 4D 30 General session Chairs: Harriet Nuttall & Alistair Evans	PARALLEL 4 · BAXTER CONCERT HALL 16 Pangea in crisis: life on land during the Permian–Triassic Chairs: Luke Norton, David Groenewald, Valentin Buffa & Josep Fortuny	PARALLEL 5 · NAB AUDITORIUM (LT1) 4 Recent advances in Mongolian Cretaceous Palaeontology and Geology Chairs: Terry Gates & Alfio Alessandro Chiarenza
16:00–16:15	*Palaeoverse – R for Paleobiologists: preparing and exploring fossil data for analysis with the palaeoverse R package*	16:00–16:45 *Panel Discussion New Directions in African Palaeoanthropology*	***Christine Strullu-Derrien*** 606 What Ancient Fossil Microorganisms Reveal About Life and Environment	***Brandon Peecook*** 237 Turtles At Home As Archosauromorphs, With A Focus On Temporal Fenestration	***James Napoli*** 660 A New Nesting Specimen of *Citipati* Exemplifies Challenges in Paleontological Species Delimitation
16:15–16:30			***Guangjin Li*** 148 A Carbonaceous Compression Fossil Assemblage from the Tonian Liulaobei Formation, North China	***Voltaire Paes Neto*** 474 Reassessing the Proterosuchidae Record (Reptilia: Archosauriformes) of the Sanga do Cabral Formation, Lower Triassic of Southern Brazil	***William J. Freimuth*** 211 New troodontid (Theropoda: Maniraptora) specimens from the Early Cretaceous Khamaryn Ar locality of southeastern Mongolia
16:30–16:45					***Matteo Fabbri*** 446 A new large troodontid from Mongolia illuminates the mosaic assembly of the theropod body plan

16:45–17:15 Poster session 3 Baxter

17:15–17:30 Closing Baxter Concert Hall

18:30 Conference Dinner

DAY 4 THURSDAY, 3 DECEMBER 2026

POSTER SESSION 3 · 16:45–17:15

61 posters, grouped by theme. Numbers are abstract (paper) numbers.

01 · Major biotic events during the Ordovician and Silurian and their dynamics 1

360 ***Jack Hooper***
No Such Thing as a Podocope? Findings from the Broadest Phylotranscriptomic Study of Oligostraca

04 · Recent advances in Mongolian Cretaceous Palaeontology and Geology 4

223 ***Jordan Powell***
Geological Reconstruction and Temporal Placement of the Khamaryn Ar Fossil Locality, Southeastern Mongolia

715 ***Jacob McCloskey***
Carbon Isotope Chemostratigraphy of Cretaceous Dinosaur-Bearing Rock Units in the Southeastern Mongolia and the Western Interior Basin, USA

745 ***Ariunchimeg Yarinpil***
On the age of the shinekhudag formation (mongolia)

746 ***Ariunchimeg Yarinpil***
Review of the cretaceous ostracod study in mongolia

07 · Ichnology – traces as multi-disciplinary lenses into the deep past 8

99 ***Adé Ben-Salahuddin***
What an Impression: Giving Some Love and Affection to a Historic Yale Peabody Museum *Anomoepus* (Dinosauria: Ornithischia) Trackway

202 ***Raul Esperante***
Upper Cretaceous (Maastrichtian) theropod swim trackways in Bolivia and their behavioral and paleoenvironmental significance

253 ***Branndon Castellano***
Therapod Bite Marks and Shed Teeth provide Insight into Trophic Ecology of a Jurassic Quarry

319 ***Ryan King***
Efficient Collection of Track Orientation Data and Interpretation of Asymmetric Movement Patterns from the Ferron Sandstone, Central Utah, USA

401 ***Laura Piñuela***
Recording the Exit Trajectory of Hallux in Deep 3D Theropod Footprints from Upper Jurassic of Asturias (N Spain)

444 ***Heitor Francischini***
A new ichnotaxon reveals the presence of birds in the late Early Cretaceous of Brazil

469 ***Annu Kuldeep***
Morphological Studies Of Coprolite From The Fatehgarh Formation, Barmer Basin, India

678 ***Arturo Miguel Heredia***
New Tetrapod Tracks from the El Jume Formation (Lower Cretaceous) of Argentina: Expanding the Crocodylomorph Ichnological Record of Western Gondwana

13 · Ichthyosaur evolution and biology 2

432 ***Erin Maxwell***
A second ichthyosaur genus with a humerus-intermedium contact from the Late Jurassic German Plattenkalks

720 ***Shion Newsom***
Ontogeny of Plicidentine in Varanid Lizards and Implications for Ichthyosaurian Dental Development and Evolution

16 · Pangea in crisis: life on land during the Permian–Triassic 16

41 ***Tristen Lafferty***
Description and phylogeny of lower Abrahamskraal Formation dinocephalians

46 ***Zanildo Macungo***
Early diversification of Gorgonopsia in the Karoo Basin of South Africa

214 ***Fonda Matlhaga***
Basal anomodont with dental occlusion and sabre canines from the Lower Abrahamskraal Formation – implications for biostratigraphy and anomodont phylogeny

264 ***Pedro Lucas de B. Pruciano***
Cluster Classification of Early-Branching Anomodont Dentition: Assessing Morphological Diversity and Evolutionary Trends

296 ***Zoleka Sibiya***
Ontogeny and Taxonomy of South African middle Permian Varanopidae

339 ***Erin Lund***
Large helical burrows from the Late Permian of South Africa

373 ***Justin Lloyd***
Endocranial morphology of *Cradognathus albanensis* (Lloyd and Durand, 2025)

421 ***Emile Pageau***
Claudiosaurus, *Hovasaurus*, and the Permian Neodiapsid Puzzle: Uncovering the Roots of Modern Reptiles

467 ***Frederick Tolchard***
A reassessment of body size and ecological role of cynodonts in the Middle Triassic

509 ***Flávio Pretto***
An early juvenile dicynodont from the Middle Triassic of Southern Brazil

642 ***Nadia Teixeira***
Cranial Morphometric Analyses of *Lystrosaurus*

689 ***Elena Boyarinova***
Evolution of the osteoderm cover in Permian pareiasaurs (Reptilia, Pareiasauria)

691 ***Andrew Heckert***
Reassessment of the enigmatic diapsid *Palacrodon* based on new specimens from Driefontein Farm 11 (Burgersdorp Formation—*Cynognathus* Assemblage Zone), South Africa

692 ***Valeriy Golubev***
Disconnected Pangea: Global Paleozoogeography of Permian Tetrapods

704 ***Fernanda Oliveira da Silva***
Postcranial Studies of Brazilian Triassic Cynodonts: The Femur of the Traversodontid *Menadon besairiei* from the Santa Maria Supersequence

716 ***Andrew Bolton***
Behavioral Implications for Combat Behavior from CT-Scans of the Cervical Vertebrae of the Basal Dinocephalian *Tapinocaninus Pamelae*

24 · Neogene primates and the origin and evolution of Hominidae 5

177 ***Sandra Selene López Balderas***
Reconstructing Primate Evolution through Facial Shape: Insights from Oligocene and Extant Taxa

213 ***Oriol Monclús-Gonzalo***
Virtual reconstruction and morpho functional analysis of Miocene ape ossa coxae using partial least-squares regression

308 ***Amelie Beaudet***
Is "Little Foot" (StW 573) morphologically unique? Evidence from 3D shape analysis of the humeral head

408 ***Sergi López-Torres***
Catarrhine primates from the Middle Miocene of Silesia (Poland), with the first occurrence of an ape

447 ***Lukas Friedl***
The StW 99 Femur Length Estimate and Relative Lower Limb Length of *Australopithecus africanus*

30 · General 25

9 ***Abdul Majid Khan***
Dietary shift and ecological differentiation of Plio-Pleistocene Cervids from the Siwalik sub-Group of Pakistan: evidence from stable isotope analysis

14 ***Sudhira Ranjan Bhadra***
Distribution, ecology and preservation of shelled pteropods in the western Bay of Bengal

33 ***Anelisa Leve***
A Fossil Scarab Beetle from Orapa Diamond Mine, Botswana

138 ***Orin Lole Durbin***
Exceptional Preservation of Macroalgae from the Earliest Cambrian Yanjiahe Formation, South China

150 ***Annie Schmaltz Hsiou***
Chronostratigraphy of southwestern Amazonia from the Upper Acre River, Brazil

153 ***Guillermo Jose Windholz***
Breaking the Sauropod Rulebook: New Osteological Insights from *Brachytrachelopan mesai*

181 ***Owen Goodchild***
An early Afrotherian (Mammalia, Placentalia) mandible from the Ouled Abdoun Basin of Morocco

187 ***Saachi Goyal***
Shaligrams in Hindu Households of Hyderabad: Young Researchers Documenting the Living Interface Between Geomythology and Fossil Literacy

256 ***Finn Mcelrue-Inch***
Assessing Changes in Theropod Dental Morphology Across the J-K Boundary

337 ***Dorian Gursky***
High precision U-Pb age modeling via CA-ID-TIMS for insight on the Maastrichtian North American Western Interior Basin fossil record

352 ***Himanshu Mishra***
Early Eocene Dipteran Families from the Valia Deposits (Cambay Basin, India): Implications for Tropical Rainforest Evolution

366 ***Adiël A. Klompmaker***
Methane near the Ancient Arctic: a Cretaceous Seep from Alaska and its Associated Fauna

379 ***Hamida Diab***
Integrating Micropaleontology, Mineralogy and Geochemistry for Paleoenvironmental Reconstruction of the Djebel Had Ooidal Ironstone, Northeastern Algeria

406 ***Amit Kumar Mishra***
Holocene Climate Variability in the Western Himalaya: A Multiproxy Study from the Chopta–Tungnath Region, Uttarakhand, India

417 ***James Kirkland***
EuroAmerican Jurassic-Cretaceous Dinosaur Extinctions Tied to Strong Climatic Fluctuation Indicated by Chemostratigraphy and Paleosols in Cedar Mountain Formation, Utah, USA

443 ***Daniel Perea***
Stratigraphic Review of Mammalian Bearing Neogene and Quaternary Deposits (Late Miocene to Middle Pleistocene) in Southern Uruguay

445 ***Martin Ubilla***
Late Oligocene Mammals from Uruguay: new records of Interatheriid (Notoungulate, Fray Bentos Formation) and bioestratigraphic and environmental implications

479 ***Alejandra Rojas***
Holocene deposits + death assemblages to tell the complete story of an extralimital bivalve on the Uruguayan coast (SW-Atlantic Ocean)

507 ***Jason Bourke***
Nasal anatomical functions for olfaction and cephalic thermoregulation in derived pterosaurs

577 ***Ariana Paulina Carabajal***
"Sleeping Beauty": a New Early-diverging Hadrosaurid (Dinosauria: Ornithischia) From the Late Cretaceous of Northern Patagonia

612 ***Thomas Clements***
Two Decades of Declining Academic Career Prospects in UK Palaeontology

638 ***Orla Bath Enright***
Gut-derived biofilms mediate phosphatization of soft tissues in the Solnhofen-type Nusplingen Lagerstätte

687 ***Matheus Denezine***
Microorganisms on siliceous-speleothems: example from sandstone caves, Brazil

708 ***Mizuki Ozawa***
The cranial morphology and taxonomical interpretation of a long-snouted tyrannosaurid

727 ***Bharat Pant***
Distribution of Tertiary Fossils in the Nepal Lesser Himalaya

WORKSHOPS

Hands-on workshops held at the Iziko South African Museum, before and after the congress.

SKETCHING PALAEOART: MUSEUM FIELD SKETCHING WORKSHOP

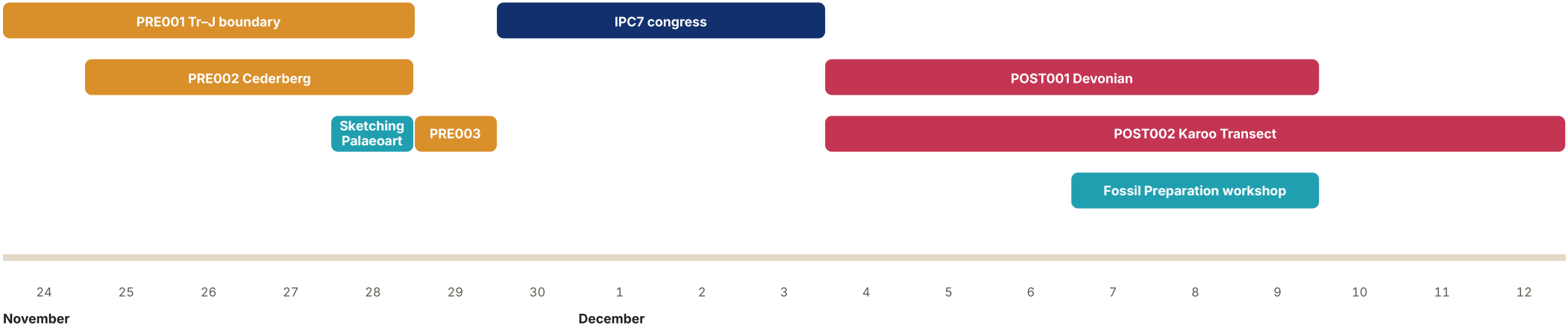
WHEN	Saturday 28 November 2026, 09:00–13:00
WHERE	Iziko South African Museum – meet at the main entrance
LEADER	Sarah Gluschitz

FOSSIL PREPARATION WORKSHOP

WHEN	7–9 December 2026, 09:00–16:00
WHERE	Iziko South African Museum
LEADERS	Magalí Cárdenas, María Eugenia Pereyra & Romala Govender

BEFORE AND AFTER THE CONGRESS

All fieldtrips and workshops at a glance, 24 November – 12 December 2026.



FIELDTRIPS

All fieldtrips are fully booked.

PRE-CONGRESS

PRE001 FULLY BOOKED

EXPLORING THE TRIASSIC–JURASSIC BOUNDARY IN SOUTHERN AFRICA

DATES 24–28 November 2026
LEADERS Emese Bordy & Jonah Choiniere

The Lower Jurassic of southern Africa represents the final events in the depositional history of the iconic main Karoo Basin of southern Pangea/Gondwana. This highly fossiliferous succession records extensive alluvial floodplains with calcic vertisols, ephemeral rivers, streams and lakes in a semi-arid setting that eventually gave way to a vast sand sea, before the return of more humid conditions at the end-Pliensbachian.

The upper Karoo is key to refining palaeoecological reconstructions, not only during the biotic recovery after the end-Triassic extinction, but also before the extrusion of the continental flood basalts that led to the end-Pliensbachian extinction. The trip showcases some of the most attractive landscapes carved into these fossil-rich continental rocks.

PRE002 FULLY BOOKED

THE LOWER–MIDDLE PALAEOZOIC OF THE CEDERBERG: CAPE SUPERGROUP

DATES 25–28 November 2026
LEADERS Cameron Penn-Clarke, Robert Gess & Robyn Symons

The Cape Supergroup is an unparalleled ~120-million-year record of environmental and biodiversity change during the Palaeozoic (Ordovician–Carboniferous) from a uniquely West Gondwanan perspective, and the Cederberg is perhaps the best place to study it, journeying from the Ordovician to the Devonian.

The Table Mountain Group preserves tantalising evidence of life's earliest movements onto land and early shallow-marine ecosystems (Graafwater and Peninsula formations), and shows South Africa as a refugium for the Late Ordovician Hirnantian biota after a global ice age (Pakhuis and Cedarberg formations). The Bokkeveld Group holds the endemic Malvinoxhosan biota of high polar latitudes during the Devonian hothouse, whose rise and demise is linked to the environmental changes recorded in these rocks and the overlying Witteberg Group.

PRE003 FULLY BOOKED

DAY TRIP TO THE WEST COAST FOSSIL PARK

DATE Sunday 29 November 2026, 08:30–17:00
WHERE About 150 km north of Cape Town (2-hour drive)
LEADERS Pippa Haarhoff, Fay-yaad Toefy & Roger Smith

This rich Miocene/Pliocene locality is recognised globally for its exceptionally well-preserved and diverse fauna, including sivatheres, giraffids, seals and whales.

FIELDTRIPS

All fieldtrips are fully booked.

POST-CONGRESS

POST001 FULLY BOOKED

DEVONIAN ECOSYSTEMS FIELDTRIP (FLY TO GQEBERHA)

DATES 4–9 December 2026
LEADER Rob Gess

Early and Late Devonian strata of the Eastern Cape reveal an unexpectedly abundant continental biota for their extremely high palaeolatitude. The uppermost Table Mountain Group has one of the most diverse known Lochkovian floras, and Famennian strata of the Witpoort Formation (Witteberg Group) are equally rich, including southern Africa's earliest trees (Archaeopteris).

The Waterloo Farm Lagerstätte combines plants and terrestrial invertebrates with the only comprehensive vertebrate biota from southern Gondwana, including tetrapods, and exceptional soft-tissue preservation such as the most complete known growth series of a Palaeozoic lamprey. The geological context of these sites and a Bokkeveld marine invertebrate locality will be examined, ending at the Devonian Ecosystems Project lab and gallery in Makhanda.

POST002 FULLY BOOKED

KAROO TRANSECT: TRANS-KAROO EXCURSION FROM ICE FLOES TO DESERT DUNES

DATES 4–12 December 2026, starting and ending in Cape Town
LEADERS Roger Smith & Bruce Rubidge

A nine-day geological and palaeontological journey through 100 million years of continental sedimentation in the Main Karoo Basin, marked by progressive aridification punctuated by glaciations, tectonic pulses and volcanic outpourings. The leaders show how these changes affected terrestrial vertebrate communities, from Carboniferous glacio-marine beds and Permian floodplains through the well-known Permian–Triassic and Triassic–Jurassic boundary sections to the Jurassic erg.

Highlights include crevasse-splay palaeosurfaces, cliff exposures of channel forms, hunting for mammal-like reptile and dinosaur fossils, palaeosols of wet, dry and loessic floodplains and two transects through the Cape Fold Belt – plus clean Karoo air, semi-desert scenery, sundowners and star-gazing, a traditional sheep farm, game parks, country hotels and farm-style cooking.