

4TH INTERNATIONAL CONGRESS ON ICHNOLOGY

IDANHA-A-NOVA, UNESCO NATURTEJO GLOBAL GEOPARK

PROGRAMME OF ICHNIA 2016

Day 1 – 6TH MAY

8.00	Opening of the Secretariat
9.00	NERY DELGADO ROOM OPENING SESSION – Welcome by the Mayor of Idanha-a-Nova and President of the UNESCO Naturtejo Global Geopark, Armindo Jacinto – Welcome by the President of the Politechnical Institute of Castelo Branco, Carlos Maia – Welcome by the President of International Ichnological Association, Alfred Uchman – Welcome by the Chief of the Earth Sciences, UNESCO, Patrick McKeever – Welcome on the behalf of the Organizing Committee, Carlos Neto de Carvalho
10.00 – 10.40	OPENING CONFERENCE TALK P. McKEEVER Sustainable Use of Ichnological Sites

10.40 –
11.00



DELTA BREAK

NERY DELGADO ROOM

1. TRACE FOSSILS AS INDICATORS OF SEDIMENTARY ENVIRONMENTS

CHAIRMAN : A. UCHMAN

JACINTO PEDRO GOMES ROOM

2. ICHNOTAXONOMY

CHAIRMAN: D. KNAUST

11.00 –
11.20

V.S. Parihar, S.L. Nama, C.P. Khichi, N.S. Hehkawat, A. Soni & S.C. Mathur: Shallow Marine Trace Fossils from Lower Sequences of Jaisalmer Formation of Jaisalmer Basin, Chelak area, Western Rajasthan, India

G. Gierlinski: Middle Jurassic avialan footprints from Imilchil in Morocco

11.20 –
11.40

A. Wetzel: *Siphonichnus* document – otherwise not recorded – sediment dynamics within Holocene incised-valley fill deposits

P. Pazos, C. Gutiérrez & D. Fernández: *Herradurichnus*, *Gyrochorte* and *Daedalus* from the Balcarce Formation (?Silurian of the Tandilia System, Argentina) revisited

11.40 –
12.00

S. Shahkarami, M.G. Mángano, L.A. Buatois: Ichnology of the Cambrian Soltanieh Formation of northern Iran: The role of environmental factors in ichnostratigraphy


A. Heredia & P. Pazos: The oldest dinosaur tracks record in the Neuquén Basin from a fluvio-aeolian Hauterivian forced regressive wedge (Avilé Member), Agrio Formation, Patagonia, Argentina

12.00 -
12.20

M. Bendella & N. Hachim: Deep sea trace fossils of Numidian flysch in Ain Berda area (eastern Algeria)

H. H. Schnick: Exceptional preservation of the endolithic tracefossil *Dendrina belemniticola* Mägdefrau, 1937 in the Upper Maastrichtian greensand of Nasiłów (Central Poland)

LUNCH

NERY DELGADO ROOM 3. TRACE FOSSILS AS INDICATORS OF SEDIMENTARY ENVIRONMENTS CHAIRMAN : L. BUATOIS		JACINTO PEDRO GOMES ROOM 4. ICHNOTAXONOMY CHAIRMAN: K. RINDSBERG	
14.30 – 14.50	E.B. Olivero & M.I. López Cabrera: Late Cretaceous long famine and short feast in Antarctica: Ichnological evidence from the Marambio Group	D. H. Goldstein, P. R. Getty , A. M. Bush: Life Underfoot: Treptichnus among Hitchcock’s Dinosaur tracks	
14.50 – 15.10	F.J. Rodríguez-Tovar, L. Alcalá, A. Cobos: <i>Taenidium</i> in the El Hoyo dinosaur tracksite (Lower Barremian, Teruel, Spain): variability and environmental control	N. L. Razzolini, O. Oms, D. Castanera, B.Vila, V.F. Santos, À.Galobart: The Vale de Meios tracksite: first evidence of megatheropods from the Middle Jurassic of Iberia	
15.10 - 15.30	P. J. Alonso-Muruaga, L. Buatois & C. O. Limarino: Postglacial trace fossil assemblages of western Gondwana and their implications: An example from Pennsylvanian deposits of the Paganzo and Calingasta Uspallata basins of western Argentina	A.V. Dronov, V.B. Kushlina, A.V. Kanygin: <i>Cruziana</i> and <i>Rusophycus</i> from the Ordovician of the Siberian platform	
15.30 – 16.10	NERY DELGADO ROOM KEY NOTE TALK D. KNAUST & A.K. RINDSBERG ICHNOTAXONOMY: THE FOUNDATION FOR ICHNOLOGICAL WORK		
16.10 – 16.30	 DELTA BREAK		

NERY DELGADO ROOM		JACINTO PEDRO GOMES ROOM	
5. TRACE FOSSILS AS INDICATORS OF SEDIMENTARY ENVIRONMENTS		6. ICHNOFABRICS	
CHAIRMAN : A. WETZEL		CHAIRMAN: F.J. RODRÍGUEZ-TOVAR	
16.30 - 16.50	M. Petruzzelli, F.M. Petti, M. Tropeano, A.Wagensommer, R. Francescangeli, R. La Perna, L.Sabatoa, L.Spalluto: New ichnological and sedimentological data on the Molfetta dinosaur tracksite (early Albian, Apulia, Italy)	R.-Y. Fan, Y.-M. Gong: Ichnological and sedimentological features of the Hongguleleng Formation (Devonian–Carboniferous transition) from the western Junggar, NW China	
16..50 - 17.10	M. M. Gilbert, L. A. Buatois, R. W. Renaut : Ichnology of the Bearpaw and Dinosaur Park formations (Campanian) in southwestern Saskatchewan, western Canada: Characterizing marginal-marine inclined heterolithic stratification deposits	E. Schatz & D. McIlroy: Permeability and porosity characteristics of ichnofabrics and lithofacies from the Early Cretaceous Hibernia Formation, offshore Newfoundland, Canada	
17.10 – 17.30	T.M. Beridze , K.V. Koiava, S.A. Khutsishvili, R..L. Chagelishvili, N.K. Khundadze, Z.A. Lebanidze: Upper Eocene Ichnofauna of the Tbilisi Suite in the Eastern Segment of the Achara-Trialeti Fold and Thrust Belt, Georgia: Revised Data	D. Díez-Canseco, L.A. Buatois, M.G. Mángano, M. Díaz-Molina: Ichnofabrics in tide-influenced meander loop deposits: Underscoring the geometry of the colonization window	
17.30 – 17.50	Z.A. Lebanidze, K.V. Koiava S.A. Khutsishvili, R..L. Chagelishvili, N.K. Khundadzd , T.M. Beridze: Trace Fossils in the Paleogene Deposits of Borjomi Area (the Central Segment of the Achara-Trialeti Fold and Thrust Belt, Georgia): Preliminary Data of Ichnological Studies	K. Cunningham: Megaporous Ichnofabrics and Associated Focused Groundwater Flow in Carbonate Platforms	
17.50 – 18.10	H. Demírcan & A. Uchman: Trace Fossils of slope deposits from the Ceylan Formation (Upper Eocene-Lower Oligocene), Gelibolu Peninsula, NW Turkey	J. Gérard: Stacking pattern analysis constrained by ichnofabrics	

NERY DELGADO ROOM

INTERNATIONAL ICHNOLOGICAL ASSOCIATION MEETING


AGENDA:

**18.10 –
19.30**

1. Report from IIA
2. Handing of IIA grants
3. Memory of deceased ichnologists
4. Election of new IIA officers
5. Voices from the members
6. Presentations from candidates for the next ICHNIA 2020
7. Announcements about forthcoming meetings

Day 2 - 7th May

NERY DELGADO ROOM 7. PALAEOBIOLOGY OF TRACE FOSSILS CHAIRMAN : R. PLOTNICK		JACINTO PEDRO GOMES ROOM 8. TRACE FOSSILS IN SEQUENCE STRATIGRAPHY CHAIRMAN : R. NETTO	
9.00 – 9.20	M. Pavela, R. Mikuláš, A.K. Rindsberg: A Carboniferous chiton (Mollusca, Polyplacophora) at the end of its trail: a unique find from the Czech Republic		S. Dasgupta, L. Buatois, M. Mángano, C. Zavala, B. Törő: Distinguishing between allogenic and autogenic surfaces: An example from the late Pliocene palaeo-Orinoco delta in Trinidad
9.20 – 9.40	A.V. Dronov, V.B. Kushlina, D.A.T. Harper: Stromatoporoid trace fossils from the Upper Ordovician of the Siberian platform		M. Verde, R.G. Netto: Arthropod trace fossils against the alleged Ediacaran age of the earliest bilaterian trace fossils in the "Tacuarí Formation" from Uruguay
9.40 – 10.00	L.A. Buatois & M.G. Mángano: Run, rabbit, run: Ichnodisparity and ichnodiversity trajectories during evolutionary radiations		E. Bordy, L. Sciscio, M. Abrahams, F. Knoll: Ichnostratigraphy of the Triassic-Jurassic in Lesotho South Africa
10.00 – 10.20	D.S. Daniel Sedorko, R.G.N. Renata Guimarães Netto, R.S.H. Rodrigo Scalise Horodyskia: A <i>Zoophycos</i> carnival: crowded <i>Zoophycos</i> ichnofabric reflecting tolerance behavior in early Phanerozoic beds		J. J. Scott: Recognizing cyclicity using terrestrial ichnology in marginal environments of lacustrine and marine basins

<p>10.20 – 11.00</p>	<p>NERY DELGADO ROOM</p> <p style="text-align: center;">KEY NOTE TALK N.J. MINTER Shinier and shinier toys in neoichnology</p>	
<p>11.00 – 11.20</p>		<p>DELTA BREAK</p>
<p>NERY DELGADO ROOM 9. PALAEOBIOLOGY OF TRACE FOSSILS</p> <p style="text-align: right;">CHAIRMAN: M. BELVEDERE</p>		<p>JACINTO PEDRO GOMES ROOM 10. ICHNOLOGY - CONCEPTUAL TOOLS AND METHODS</p> <p style="text-align: right;">CHAIRMAN: M.G. MÁNGANO</p>
<p>11.20 – 11.40</p>	<p>G. Radtke, S. Golubic: Ichnology and Paleoecology of Carbonate Boring habit in the Development of Marine Algae</p>	<p>F. Muñiz, Z. Belaústegui, M.G. Mángano, L.A. Buatois, R. Domènech, J. Martinell: Ichnogeny: an expansion to the conceptual framework of ichnology</p>
<p>11.40 - 12.00</p>	<p>G. Kesidis, G. E. Budd: <i>Cruziana</i>, <i>Rusophycus</i> and the record of arthropod limb evolution</p>	<p>A.K. Rindsberg, A.J. Martin, S.W. Henderson: The ichnologic heritage of Robert W. Frey (1938-1992)</p>
<p>12.00 - 12.20</p>	<p>I.V. Buynevich, H.A. Curran, K.A. Kopcanski, L.E. Park Boush, P.L. Gnivecki: Neoichnology of the blue land crab (<i>Cardisoma guanhumí</i>): indicative meaning of a Bahamian landscape engineer</p>	<p>Baucon, A., Neto de Carvalho, C., Felletti, F.: Ichnofacies: a network perspective</p>

<p>12.20 – 12.40</p>	<p>D.S. Daniel Sedorko, R.G.N. Renata Guimarães Netto, E.P.B. Elvio Pinto Bosetti, R.S.H. Rodrigo Scalise Horodyski: <i>Macaronichnus</i> in Devonian beds: paleobiological and paleoecological implications</p>	<p>W.D. Krummeck, E.M. Bordy: Digital library of ichnofossils in the Karoo Supergroup, South Africa</p>
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LUNCH

<p>NERY DELGADO ROOM</p> <p>11. TRACE FOSSILS AS INDICATORS OF SEDIMENTARY ENVIRONMENTS</p> <p style="text-align: right;">CHAIRMAN: J. SCOTT</p>		<p>JACINTO PEDRO GOMES ROOM</p> <p>12. TRACE FOSSILS IN SEQUENCE STRATIGRAPHY</p> <p style="text-align: right;">CHAIRMAN: L. V. DUARTE</p>	
<p>14.30 – 14.50</p>	<p>K. Seike, M. Banno, S. Yanagishima, Y. Kuriyama: Biogenic sedimentary structures in shoreface deposits in a modern wave-dominated sandy coast</p>	<p>B. Laing, L. Buatios, G. Mángano, G. Narbonne: Redefining the Treptichnus pedum Ichnofossil Assemblage Zone: A critical reassessment of the Ediacaran-Cambrian boundary</p>	
<p>14.50 – 15.10</p>	<p>S. Noll, J. Lima, R. Netto: Gas dome structures preserved in association with trace fossils</p>	<p>M. Paz, J.J. Ponce, F. González Tomassini, P. Desjardins, L.A. Buatois, M.G. Mángano, H. Reijenstein, M.D. Vallejo, M.A. Fantín: Ichnology of the Upper Jurassic-Lower Cretaceous Vaca Muerta Formation, Neuquén Basin, Argentina: Delineating environmental changes in a shale oil/gas unit</p>	
<p>15.10 - 15.30</p>	<p>L. Sciscio, E.M. Bordy, M. Reid, M. Abrahams: Sedimentology and ichnology of the Mafube dinosaur footprint site (Early Jurassic, eastern Free State, South Africa): a preliminary report on footprint preservation and palaeoenvironment</p>	<p>L. Chabanole & L. Buatois: The role of colonization windows in a restricted marine setting under transgressive conditions: The Upper Devonian-Lower Mississippian Bakken Formation of Saskatchewan, Canada</p>	

15.30 – 15.50	M. Nara: Sedimentology, palaeoecology, and ichnology of early to middle Miocene, Southwest Japan Arc: Palaeoecosystems during rapid backarc spreading	R. S. Hemanta, K. S. Kumar, S. Ibotombi: Characterization of Eocene-Oligocene Transition (EOT) flysch sediments of Manipur-Nagaland, Northeast India: An observation from trace fossils and associated features
15.50 – 16.10	A. J. Martin, D. J. Varricchio: Continental Ichnofacies of the Two Medicine Formation (Late Cretaceous, Montana USA) and Their Paleoeological Significance	A. Ichaso, L. Buatois, G. Mángano: Transition from tide- to wave-dominated regimes in a middle Cambrian to Lower Ordovician seaway in southern Saskatchewan: Integrating ichnologic and sedimentologic datasets
16.10 – 16.30	 DELTA BREAK	
NERY DELGADO ROOM 13. TRACE FOSSILS AS INDICATORS OF SEDIMENTARY ENVIRONMENTS CHAIRMAN: N. MINTER		JACINTO PEDRO GOMES ROOM 14. ICHNOLOGY - CONCEPTUAL TOOLS AND METHODS CHAIRMAN: L. LÖWEMARK
16.30 – 16.50	D.I. Hembree, J.J. Smith, I.V. Buynevich I.V., B.F. Platt: Neoichnology of the Sonoran Desert, U.S.A.: Continental Ichnocoenoses from Desert Floor to Mountain Top	K.A. Kopcinski I.V. Buynevich , H.A. Curran, L.E. Park Boush, J. Caris, E. Perlmutter, A. Widstrand: Bioturbation in supratidal carbonates: cutting-edge field technologies enhance neoichnological and zoogeomorphological research, San Salvador, Bahamas
16.50 – 17.10	H. Curran, I. Buynevich, K. Seike, K. Kopcinski, F. Rodríguez-Tovar: Brachyuran crabs modify Bahamian island landscapes: neoichnology and paleoenvironmental applications	M.G. Mángano & L.A. Buatois: The Cambrian revolutions: timing, links and the ichnologic record

17.10 – 17.30	K. Seike: Bioturbation in shallow marine deposits after a severe tsunami disturbance	J. Dorador, A. Wetzel, F.J. Rodríguez-Tovar: <i>Zoophycos</i> as a productivity proxy in palaeoceanography – the 1.5 Myr long record at The West Iberian Margin as example
17.30 – 17.50	A. Martin, T. Rich, P. Vickers-Rich, P. Trusler, L. Kool, M. Hall: Circumpolar Fluvial Trace Fossils from Lower Cretaceous Strata of Victoria, Australia: A Ten-Year Summary Report	M. Belvedere, S. Ernst, D. Marty: The precision of outline drawings: a comparison based on dinosaur tracks
17.50 – 18.10	S. Jensen, Chris E. White, Sandra M. Barr: Remarkable lower Cambrian deep-water trace fossils from the High Head Member, Meguma terrane, Nova Scotia, Canada	D.S. Ponomarenko: Radius of curvature analysis: A method for inferring forelimb proportions from fossil burrows
18.10 – 18.30	V. Krapovickas, M. Mángano, L. Buatois, C. A. Marsicano: Desert systems, climate change, and trace fossils	
18.30 – 19.30	POSTER SESSION	

Day 4 - 9th May

NERY DELGADO ROOM 15. PALAEOBIOLOGY OF TRACE FOSSILS CHAIRMAN: S. JENSEN		JACINTO PEDRO GOMES ROOM 16. RISING THE PROFILE OF ICHNOLOGY TO MODERN SOCIETY CHAIRMAN: L. ALCALÁ	
9.00 – 9.20	S. Rozhnov: Cyanobacterial origin and morphology of the Volkhov hardgrounds (Dapingian, Middle Ordovician) of the St. Petersburg Region (Russia)		L.A. Rodrigues: Ichno what? Outreach and Informal Education in a Science Centre in Algarve (Portugal)
9.20 – 9.40	Y. C., Zheng, L., Löwemark, S., Das, C. P., Yeh, & T. T., Chen: A peculiar reworking of <i>Ophiomorpha</i> shafts in the Miocene Nangan Formation, Taiwan		V.F. Santos & C. Neto de Carvalho: Gomes (1915-1916) to Ichnia 2016 – one hundred years of vertebrate Ichnology in Portugal
9.40 – 10.00	D. Castanera, A. Luzón, R. Rabal-Garcés, J. Revuelto, I. Díaz-Martínez, J.I. Canudo: Mammal and avian tracksites from the Lower Oligocene in the North of Ebro Basin (Aragón, Spain)		V.F. Santos: The role of the Museu Nacional de História Natural e da Ciência in the study of dinosaur tracksites and its contribution to the conservation and enhancement
10.00 – 10.20	R.N. Melchor & D. Loope: Communal therapsid burrows from interdune facies of the Lower Jurassic Navajo Sandstone, southern Utah, USA		Rodrigues, Neto de Carvalho, Santos: Ichnological Heritage in Portugal
10.20 – 10.40	 DELTA BREAK		

NERY DELGADO ROOM 17. PALAEOBIOLOGY OF TRACE FOSSILS CHAIRMAN: V. SANTOS		JACINTO PEDRO GOMES ROOM 18. RISING THE PROFILE OF ICHNOLOGY TO MODERN SOCIETY CHAIRMAN: D. MARTY	
11.40 – 11.00	L. Löwemark: Life and death on the continental shelf 20 Ma: the interaction between predator and prey as reflected in trace fossils	S. Lorenzo Álvarez, J.C. Gutiérrez-Marco, A.A. Sá: Remarkable ichnological sites in the Armorican Quartzite (Lower Ordovician) from the Almadén-Porzuna areas (Central Iberian Zone, Spain)	
11.00 - 11.20	O. Enright, N. Minter, E. Sumner, G. Mángano & L. Buatois: A doomed expedition? Exploring the concept of doomed pioneers using an annular flume tank and the polychaete, <i>Alitta virens</i>	V.F. Santos & J. Reis: The potential of Dinosaur tracksites to enhance Earth Sciences Literacy	
11.20 - 11.40	D. Marty, M. Belvedere, C. A. Meyer, N. Razzolini, G. Paratte, C. Lovis, M. Cattin: Terror at the beach: huge theropod tracks on the Jura carbonate platform (Late Jurassic, Switzerland)	Rodrigues, Neto de Carvalho & Baucon: Communication of Ichnological Heritage in UNESCO Naturtejo Global Geopark (Portugal)	
12.00 – 12.40	NERY DELGADO ROOM KEY NOTE TALK J.J. MORATALLA 1971-2016, 45 years of Spanish dinosaur Paleoichnology: an amazing Mesozoic record and an impressive heritage		

Lunch

NERY DELGADO ROOM

19. PALAEOBIOLOGY OF TRACE FOSSILS

CHAIRMAN: A. BAUCON

**14.30 –
15.50**

L. J. Zhang, Y. M. Gong : *Zoophycos* macroevolution and its ichnotaxonomy since 541 Ma

**14.50 –
15.10**

R. Plotnick & M. Uhen: Ichnology in the Paleobiology Database

**15.10 -
15.30**

I. Tanaka: Avian wing loading, aspect ratio, area and span are related to tracks

**15.30 –
16.10**

A. Uchman, A. Wetzel: Sequestrichnia – a new ethological category of trace fossils in oligotrophic deep-sea environments

**16.10
– 16.30**

NERY DELGADO ROOM

KEY NOTE TALK

	<p style="text-align: center;">J.F. GENISE</p> <p style="text-align: center;">Ichnoentomology: Insect traces in soils and paleosols</p>
<p>16.30</p>	<p style="text-align: center;">CLOSING CEREMONY</p> <ul style="list-style-type: none">– Secretary of State of Land Management and Nature Conservation, Célia Ramos– Director of Management School of Idanha-a-Nova, Ana Rita Garcia– Mayor of Idanha-a-Nova and President of the UNESCO Naturtejo Global Geopark, Armindo Jacinto– President of International Ichnological Association, Alfred Uchman– Farewell on the behalf of the Organizing Committee, Andrea Baucon