

14TH INTERNATIONAL POLYCHAETE CONFERENCE

3-7 July 2023 | STIAS | Stellenbosch, South Africa

#IPC14Stellenbosch @IPC2023

HOSTED BY



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South African National Biodiversity Institute

EXHIBITORS





		MONDAY, 3 JULY 2023						
Time	Abstract Nr.	Description	Speaker					
08h00	8h00 Registration opens - arrival coffee and tea							
		THEME: ECOLOGY, BIODIVERSITY & BIOGEOGRAPHY (Chair: Ca	rol Simon)					
08h30	8h30 Welcome and Opening Carol A. Simon, Stellenbosch University							
08h45	Keynote: The	under-appreciated roles of polychaetes as ecosystem engineers	George Branch, University of Cape Town					
09h30	099	Polychaete fauna associated with mussel and oyster aggregations in the Mediterranean Sea	Barbara Mikac, University of Bologna					
09h45	024	Polychaete communities in the nearshore zone of False Bay, South Africa	Bomikazi Tshingana, University of Cape Town					
10h00	126	Functional similarities of marine polychaetes from South Africa's northeast mid-shelf are driven by sediment characteristics	Sikhumbuzo M. Maduna, Oceanographic Research Institute (SAAMBR)					
10h15	-	The remarkable life of John Day, polychaet-ologist	Bomikazi Tshingana, University of Cape Town Sikhumbuzo M. Maduna, Oceanographic Research Institute (SAAMBR) Jenny Day, Freshwater Research Centre n Clarke) Karin Meißner, Senckenberg Museum Nataliya Budaeva, University Museum of Bergen, University of Bergen Amoré Malan, Anchor Environmental Consultants Laetitia M. Gunton, Portsmouth University					
10h30	Mid-morning	refreshments						
		THEME: ECOLOGY, BIODIVERSITY & BIOGEOGRAPHY (Chair: Dyl	lan Clarke)					
11h00	159	Polychaetes distributed across oceans - examples of widely distributed species from abyssal depths	Karin Meißner, Senckenberg Museum					
11h15	Wide-spread dispersal in a deep-sea brooding polychaete: the role of natural history collections in assessing the distribution in quill worms (Onuphidae, Annelida)		Nataliya Budaeva, University Museum of Bergen, University of Bergen					
11h30	120	Diversity and distribution patterns of polychaete fauna on the continental shelf of Southern Namibia	Amoré Malan, Anchor Environmental Consultants					
11h45	055	Well-connected worms: genetic connectivity of annelids in Australia's eastern abyss	Laetitia M. Gunton, Portsmouth University					
12h00	148	Long-term impacts of large-scale herring death on benthic fauna in a shallow silled fjord in Iceland	Valtýr Sigurðsson, Biopol and Northwest Icelandic Nature Center					
12h15	Group Photo							
12h30	Lunch							
		THEME: POLLUTION STUDIES REPRODUCTIVE BIOLOGY (Chair: Fi	ona MacKay)					
13h30	030	Drivers of polychaete distribution within the Berg River Estuary, South Africa	Carol A. Simon, Stellenbosch University					
13h45	006	The role of polychaetes in the interaction of macrofauna with microplastics at the benthic zone: A case study of Tokyo bay	Said M. Hashim, Tokyo University of Marine Science and Technology					
14h00	003	Assessment of the relationship between benthic macroinvertebrate community structure and the quality of water in selected Ghanaian estuaries	Dorothy Khasisi Lukhabi, University of Cape Coast					
14h15	096	Epitoky in <i>Alitta succinea</i> (Annelida: Nereididae): using click chemistry sequencing to characterize gene expression	Mary Colleen Hannon, Texas A&M University at Galveston					
14h30	140	Population structure and reproductive biology of <i>Sipunculus nudus</i> (Annelida: Sipunculidae) in Todos-Os-Santos Bay, Bahia, Brazil: Preliminary Results	Wagner Magalhães, Federal University of Bahia					

Time	Abstract Nr.	Description	Speaker					
14h45	109	The reproductive strategies of <i>Diopatra aciculata</i> (Annelida) in the Knysna Estuary	Stephanie Schoeman, Stellenbosch University					
15h00	Mid-afternoor	Mid-afternoon refreshments						
		THEME: REPRODUCTIVE BIOLOGY PHYSIOLOGY AND ECOLOGY (Chair:	Sarah Faulwetter)					
15h30	105	Reproduction and possible feeding habits of branching syllids <i>Ramisyllis</i> spp. (Annelida, Syllidae)	Maria Teresa Aguado Molina, Georg August University					
15h45	Secondary planktotrophic larvae and hermaphroditism, a trend in sessile marine invertebrates? A discussion using the examples of Serpulinae and other invertebrates R. Paul Wolf		R. Paul Wolf					
16h00	078	Biogeography of polychaetes in South African Bays	Jessica Dawson, Anchor Environmental Consultants (Pty) Ltd.					
16h15	032	Polychaeta distribution in <i>Ecklonia radiata</i> holdfast along the southeast coast of South Africa	Naledi Nkohla, Walter Sisulu University					
16h30	124	Polychaetes characterise an atypical muddy shelf region of the east coast of South Africa	Stacey Jordaan, Oceanographic Research Institute					
16h45	South African subtropical polychaetes: community patterns and biodiversity hotspots shaped		Fiona Mackay, Oceanographic Research Institute					
17h00	Sands and gravels of the outer continental shelf off the Cap de Creus (NW Mediterranean) with Lanice conchilega		Rafael Sardá, Consejo Superior de Investigaciones Científicas (CSIC)/ESADE					
17h15	End of Day 1							
17h15	Welcome Reception @ STIAS							



		TUESDAY, 4 JULY 2023						
Time	Abstract Nr.	Description	Speaker					
08h00	Registration o	Registration opens - arrival coffee and tea						
		THEME: ECONOMICALLY IMPORTANT SPECIES (Chair: Pat H	Hutchings)					
08h30	Keynote: Wigg	gly Gold: commercial influence in accelerating annelid research in developing region	Izwandy Idris, Universiti Malaysia Terengganu					
09h15	026	The management of blood worms, <i>Marphysa</i> spp. with particular reference to Australia, South Africa and Europe	Pat Hutchings, Australian Museum					
09h30	015	Suitability of Polychaete worms (<i>Marphysa mossambica</i>) as protein and lipid ingredients for the culture of Tiger prawn (<i>Penaeus monodon</i>) in hapa nets in tidal ponds of Mtwapa creek	Brendan Mutua Muli, Pwani University					
09h45	009	Performance of eunicid polychaetes (<i>Marphysa mossambica</i>) commonly exploited by artisanal fishers under different culture and diet regimes between 2015 and 2017	Thaddeus S. Ombati, Egerton University					
10h00	014	Polychaete fishing as a pathway to women's wellbeing	Alice Prieto-Carolino, University of the Philippines Visayas					
10h15	• María N	artmann-Schröder Iuria Méndez Ubach a Cunha Lana	Jenna M. Moore, Museum of Nature Hamburg Vivianne Solis-Weiss, National Autonomous University of Mexico Wagner Magalhães, Federal University of Bahia					
10h45	Mid-morning	refreshments						
		THEME: ECONOMICALLY IMPORTANT SPECIES PHYSIOLOGY AND ECOLO	GY (Chair: Izwandy Idris)					
11h15	036	Variability in euryhalinity of two Ponto-Caspian invasive annelid species	Serena Mucciolo, University of Lodz					
11h30	137	Expanding our understanding of the diet and trophic role of the cryptogenic estuarine moonshine worm (<i>Diopatra aciculata</i>) in warm temperate estuaries of South Africa	Hendré van Rensburg, University of Stellenbosch					
11h45	021	Identifying G protein-coupled receptors (GPCR) involved with mating behaviour in <i>Platynereis dumerilii</i> to shed light on the impact of ocean acidification on chemical communication	Victoria Carla Moris, University of Hull					
12h00	123	Which sea cucumbers do worms like? Host choice of the ectoparasitic polynoid <i>Gastrolepidia</i> clavigera Schmarda 1861	Takahiro Sugiyama, Kyoto University					
12h15	Q&A							
12h30	Lunch							
		THEME: TAXONOMY AND MORPHOLOGY (Chair: Elena K. Ku	<u> </u>					
13h30	111	Intertidal polychaetes of Kuwait – an update since 2016	Manal Al-Kandari, Environment and Life Sciences Research Center, Kuwait Institute for Scientific Research					
13h45	116	New records and species of polychaetes from an anchialine cave of Mallorca (Balearic Islands)	Maria Capa, University of the Balearic Islands					
14h00	044	The polychaete legacy of Marian Pettibone: a look ahead	Victor M. Conde-Vela, National Museum of Natural History, Smithsonian Institution					
14h15	011	Taxonomy of European Cirratulidae – latest progress and future prospects	Maël Grosse, University of Oslo, Natural History Museum					

Time	Abstract Nr.	Description	Speaker	
14h30	071	Fine morphology of jaw apparatus of Scoletoma fragilis (Lumbrineridae, Annelida)	Anna Koroleva, Lomonosov Moscow State University	
14h45	084	Developing taxonomy – DNA sequencing and morphology in the description of new species of Lumbrineridae (Annelida: Eunicida) from the North Atlantic	Eivind Oug, Norwegian Institute for Water Research, Region South	
15h00	Mid-afternoo	n refreshments		
		THEME: TAXONOMY AND MORPHOLOGY (Chair: Jyothi	Kara)	
15h30	079	Chaetopteridae of Macaronesia and the Atlantic coasts of Africa	Jenna M. Moore, Museum of Nature Hamburg, Leibniz Institute for the Analysis of Biodiversity Change	
15h45	056	Reconciling morphology and molecules to explore diversity of gossamer worms (Polychaeta, Tomopteridae)	Karen J. Osborn, Smithsonian National Museum of Natural History	
16h00	156	200 Years of holopelagic Annelida taxonomy: new methods - new complexities	Vitaly L. Syomin, Shirshov Institute of Oceanology of Russian Academy of Sciences	
16h15	005	Unraveling the slime worm ball: An overview of <i>Myxicola</i> species from the coasts of North America	Nancy K. Prentiss, University of Maine at Farmington	
16h30	113	Integrative taxonomy <i>Eunice</i> cf. <i>aphroditois</i> (Annelida: Eunicidae) from Japan: comparative analysis of juvenile and adult forms and phylogenetic placement within the family	Chiharu Shinomiya, Kyoto University	
16h45	End of Day 2	Free Evening		

	WEDNESDAY, 5 JULY 2023					
09:00	All delegates depart from STIAS Please arrive on time. Buses leave promptly at 09:00					
10:00	Arrive at Iziko Museums Enter into the Iziko South African Museum (ISAM) main visitor reception area for information session (Dylan Clarke)					
10:30	Delegates free to access: - Iziko South African Museum (fossils, animals & man-made artifacts) - South African national Gallery (major museum for African & European art) - Iziko Slave Lodge (various exhibits in a historic building)					
12:30	Lunch on the 5th Floor of ISAM					
15:00	Buses depart back to STIAS					
16:00	Arrive at STIAS – Free evening					

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Time	Abstract Nr.	THURSDAY, 6 JULY 2023 Description	Speaker
08h00		ation opens - arrival coffee and tea	Speaker
001100	37 (33B) (16B) 311	THEME: TAXONOMY AND MORPHOLOGY SYSTEMATICS AND PHYLOGENETI	CS (Chair: Conrad Matthee)
08h30	Keynote: The	use of phylogenetic trees to reveal environment history	Tony Verboom, University of Cape Town
09h15	072	What is Myzostomids parenchyma?	Alexander Tzetlin, M.V.Lomonosov Moscow State University
09h30	131	Current knowledge of the family Capitellidae (Annelida) in Brazil: what has been done and next steps	Camila F. Silva, Oceanographic Institute of the University of São Paulo (presented by: Wagner Magalhães, Federal University of Bahia)
09h45	069	Clarifying the identity of beach dwelling polychaetes of the genus <i>Scolelepis</i> (Annelida: Spionidae) from the Atlantic coast of North America, previously confused with the European species <i>Scolelepis squamata</i> (O.F. Müller, 1806)	Jason D. Williams, Hofstra University
10h00	035	Revisiting the evolution of annelid larval forms	Greg Rouse, Scripps Oceanography, University of California San Diego
10h15	103	Species diversity of the pelagic polychaete family Tomopteridae in the eastern Indian and Pacific Oceans	Kanako Amei, Atmosphere and Ocean Research Institute, the university of Tokyo
10h30	Mid-morning	refreshments	
		THEME: SYSTEMATICS AND PHYLOGENETICS (Chair: Torste	en Struck)
11h00	074	Dating the annelid tree of life	Torsten H. Struck, University of Oslo
11h15	107	An update on the phylogeny of scale worms (Aphroditiformia, Polychaeta)	Yu Wang, Hainan University
11h30	118	The Syllis prolifera species complex: a morphological and molecular approach	Irene del Olmo, Universidad Autónoma de Madrid
11h45	119	Integrative taxonomy to study syllid annelids of Bermuda with reorganization of the genus Megasyllis	Paula Moreno Martín, Universidad Autónoma of Madrid
12h00	085	Phylogeny of Orbiniidae (Annelida) based on genome skimming	Miguel A. Meca, University Museum of Bergen
12h15	066	Orbiniidae (Annelida, Sedentaria) - does morphology match molecular data?	Anna Zhadan, M.V.Lomonosov Moscow State University, biologica faculty
12h30	Lunch Interr	national Polychaetology Association Advisory Council meeting	
		THEME: SYSTEMATICS AND PHYLOGENETICS / INVASIVE SPECIES (Cha	ir: Tammy Robinson)
13h30	132	Capturing cryptic diversity of Andaman coral reefs with Autonomous Reef Monitoring Structures (ARMS): First initiative in Indian waters	Tejal V. Vijapure, Centre for Ecological Sciences, Indian Institute of Science (IISc)
13h45	127	Evaluation of the presence of mitochondrial sequences in Annelida nuclear genomes	Joana Zanol, Museu Nacional, Federal University of Rio de Janeiro
14h00	Change venue	es – SASSB delegates moves to Manor Library	

	IPC14 – AUDITORIUM				SASSB 2023 – MANOR LIBRARY		
Time	Abstract Nr.	Description	Speaker	Abstract Nr.	Description	Speaker	
14h15	017	Colonization patterns of the invasive species <i>Ficopomatus enigmaticus</i> (Fauvel, 1923) in a shallow coastal lagoon in Greece	Sarah Faulwetter, University of Patras	001	A description of a new species of a paederine staphylinid beetle from a Cretaceous crater lake at Orapa, Botswana	Sandiso Mnguni, University of the Witwatersrand	
14h30	039	Polychaete diversity in New England marinas after two decades of rapid biodiversity assessment surveys: challenges and future plans	Andrew A. Davinack, Wheaton College	002	Genome size variation in Cape schoenoid sedges (Cyperaceae: Schoeneae) and its ecophysiological consequences	Ruan van Mazijk, University of Cape Town	
14h45	033	"Cosmopolitan" species as gateways for cryptic invasions: integrative taxonomy to the rescue	Elena K. Kupriyanova, Australian Museum Research Institute	005	Exploring <i>Penicillium</i> diversity in South Africa	Cobus Visagie, University of Pretoria	
15h00	018	The European Research Infrastructure LifeWatch ERIC and its potential for supporting the Polychaete Community	Christos Arvanitidis, LifeWatch ERIC	006	Assessing Introgressive hybridization of native <i>O. mossambicus</i> in South Africa	Tonna Mojekwu, University of Pretoria	
15h15	Q&A						
15h40	Short presentation from Delheim						
16h00	Dedicated	Dedicated poster session + wine & cheese					

	FRIDAY, 7 JULY 2023					
08h00	08h00 Registration opens - arrival coffee and tea					
	THEME: EDUCATION DEVELOPMENTAL MORPHOLOGY (Chair: Patricia Álvarez-Campos)					
Time	Abstract Nr.	Description	Speaker			
08h30 Keynote 4: Building up STEAM: Innovative approaches to engage undergraduate students in investigations of morphology Sara M. Lindsay, University of Maine		Sara M. Lindsay, University of Maine				
09h15	09h15 Change venues – SASSB delegates moves to Manor Library					

	IPC14 – AUDITORIUM				SASSB 2023 – MANOR LIBRARY		
Time	Abstract Nr.	Description	Speaker	Abstract Nr.	Description	Speaker	
09h30	151	Inspiring young polychaetologists in the molecular age	Paul D. Rawson, University of Maine	008	Acclaimed but poorly named: A new molecular phylogeny unveils evolutionary relationships in the charismatic South African daisy genus <i>Dimorphotheca</i>	Thaabiet Parker, University of Cape Town	
09h45	138	Single cell sequencing for evolutionary and developmental biology in annelids	Patricia Álvarez-Campos, Universidad Autónoma de Madrid	009	Systematics of the Sub-Saharan Perlidae	Abigail Kirkaldy, Rhodes University	
10h00	013	Desmosomal connectomics and muscular system innervation in the <i>Platynereis</i> larva	Sanja Jasek, University of Exeter	010	The enigmatic subterranean amphipod genus (<i>Sternophysinx</i> : Sternophysingidae): Conservation and systematics	Zizile Mlungu, Rhodes University	
10h15	112	When something goes wrong: comparative analysis of regeneration processes in annelids	Viktor V. Starunov, Zoological Institute of Russian Academy of Sciences	011	Citizen Scientists apprehend alien stick insect in South Africa	Martin Villet, Rhodes University	
10h30	Mid-morni	ng refreshments		<u>'</u>			
	THEME: EDI	UCATION DEVELOPMENTAL MORPHOLOGY	' (Chair: Ekin Tilic)				
11h00	070	What (a) nerve! A "sensormotor" neuron in the copulatory organ of <i>Dimorphilus gyrociliatus</i> dwarf males (Dinophilidae) likely orchestrates glands, muscles and multiciliated cells during copulation	Alexandra Kerbl, Centre for Organismal Studies, Heidelberg University	012	Systematics of the genus <i>Argyrolobium</i> Eckl. & Zeyh. (Genisteae)	Xichavo Mathebula, University of the Western Cape	
11h15	135	Insights into molecular pathways underlying development and paedomorphism in the bone eating worm <i>Osedax japonicus</i> (Siboglinidae, Annelida)	Alice Rouan, Marine Biological Section, Department of Biology, University of Copenhagen	013	Evolutionary timeline of rhizobial beta- proteobacteria	Lazarus Mavima, University of Pretoria	
11h30	063	Axial differences in regeneration ability and identification of a putative stem cell niche in the annelid <i>Capitella teleta</i>	Elaine Caeia Seaver, University of Florida	014	Can the vegetation units in the GCFR be distinguished based on pollen morphology?	Janaïs Delport, University of Cape Town	
11h45	106	Everlasting tail: organisation and regeneration of <i>Pygospio elegans</i> (Spionidae) nervous system	Zinaida ladia Starunova, Zoological Institute of the Russian Academy of Sciences	016	Implementing the SeqCode for naming nine new Mesorhizobium species isolated from Vachellia karroo root nodules	Melandre van Lill, University of Pretoria	
12h00	043	New Insights into Annelid Chaetogenesis	Ekin Tilic, Senckenberg Research Institute and Natural History Museum	018	Myrmecochory in the Fynbos Biome revisited: origin, occurrence and its implication for the biology of Cape plants	Muthama Musaya, University of Cape Town	

Time	Abstract Nr.	Description	Speaker	Abstract Nr.	Description	Speaker
12h15	134	Insights into male paedomorphosis through postembryonic developmental studies of the sexually dimorphic Osedax (Siboglinidae, Annelida)	Katrine Worsaae, University of Copenhagen	020	The complex dynamics of population divergence in Cape heathers: the case of <i>Erica abietina</i>	Seth Musker, University of Cape Town
12h30	Lunch					
13h30				021	Investigating the phylogenetics of Osteospermum section Polygalina and the placement of novel specimens	Lauren James, University of Cape Town
14h45				022	Botryosphaeriaceae associated with three native tree species in South Africa	Martin Coetzee, University of Pretoria
14h00	Internation	al Polychaetology Association meeting & nex	xt conference bids	023	Heteroscleromorph demosponge taxonomy and diversity of the Amathole region (Eastern Cape, South Africa)	Robyn Payne, Anchor Environmental Consultants
14h15				025	Inferring phylogenetic trees under the isolation-with-migration model	Zaynab Shaik, University of Stellenbosch
14h30				026	Resolving tribe Calenduleae Taxonomy: Multilocus Phylogenetic Analysis, generic taxonomy and associations between habitat and dispersal ability	Robert Sadler, University of Cape Town
14h45	Close of Co	Close of Conference & Prize Giving		027	DNA Barcoding and morphological analysis confirm that the Afrotropical <i>Syritta bulbus</i> is a species complex (Diptera: Syrphidae)	Bonolo Mosime, KwaZulu-Natal Museum
15h15	Mid-aftern	oon coffee/tea	·			
Time	Abstract Nr.	Description	Speaker	Abstract Nr.	Description	Speaker
15h15				029	Taxonomy, diversification, and evolutionary history of the African laminated toothed rats (Rodentia, Otomyini)	Conrad Matthee, University of Stellenbosch
15h30	Not in use			031	Polyploidy in the Cape Flora: discovery, exploration of origins, and environmental and morphological correlates of polyploidy in the flagship Cape plant species renosterbos (<i>Dicerothamnus rhinocerotis</i> , Asteraceae, Gnaphalieae)	Nicola Bergh, South African National Biodiversity Institute
15h45				Close of C	onference & Prize Giving/Award	

OFFICIAL CONFERENCE DINNER (Buses leave at 17:00 from STIAS)