

**NOTE THAT ALL TIMES REFER TO BRITISH SUMMER TIME (GMT+1)**

**MONDAY 25 JULY**

8.30 – 9.00	Welcome by WAC President and Co-organisers
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**SYMPOSIUM 1: MARINE PLANKTONIC COPEPODS: FROM BIODIVERSITY TO ECOLOGY**

**Co-convenors: Iole Di Capua (Stazione Zoologica Anton Dohrn, Naples) & Astrid Cornils (Alfred-Wegener-Institut, Bremerhaven)**

**Moderator: Alexandra Savchenko**

9.00 – 9.40	<b><u>Petra H. Lenz</u>, Daniel K. Hartline &amp; Vittoria Roncalli</b> Transcriptomics: An ecophysiological profiler for copepods
9.40 – 10.20	<b><u>Susumu Ohtsuka</u>, Sota Komeda &amp; Tomonari Kaji</b> Carnivory and detritivory in oceanic calanoid copepods: functional morphological approaches
10.20 – 10.40	Coffee break
10.40 – 11.20	<b>Marco Uttieri</b> <i>Pseudodiaptomus marinus</i> fits all – From taxonomy to invasion ecology
11.20 – 12.00	<b>Lidia Yebra</b> Integrative taxonomy in trophodynamic studies

12.00 – 13.00	Lunch break
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**REGULAR SESSION 1: MARINE HARPACTICOIDA – SYSTEMATICS, EVOLUTION AND ECOLOGY**

**Chairperson: Rony Huys**

**Moderator: Nancy Mercado Salas**

**I – ORAL PRESENTATIONS**

13.00 – 13.20	<b><u>Motohiro Shimanaga</u>, Takumi Miyano &amp; Minoru Wada</b> Severe seasonal hypoxia effects on benthic copepod communities in the Omura Bay, a highly enclosed coastal sea in Japan
13.20 – 13.40	<b><u>Serdar Sönmez</u>, Süphan Karaytuğ, Serdar Sak, Alp Alper, Mahir Korkmaz &amp; Dilara Bakmaz</b> Integrated taxonomy of <i>Penicilliaris</i> spp. (Harpacticoida: Parastenheliidae) living along the mediolittoral zone of Turkish coasts: Clear molecular evidence for cryptic speciation
13.40 – 14.00	<b><u>Alp Alper</u>, Süphan Karaytuğ &amp; Serdar Sak</b>

	Taxonomic revision of the genus <i>Nannomesochra</i> Gurney, 1932 (Copepoda, Harpacticoida) with description of three new species
14.00 – 14.20	<b><u>Seher Kuru, Serdar Sönmez &amp; Süphan Karaytuğ</u></b> Partial taxonomic revision of the genera <i>Klieonychocamptus</i> Noodt, 1958 and <i>Echinolaophonte</i> Nicholls, 1941 (Copepoda, Harpacticoida, Laophontidae) with short remarks on their phylogeny
14.20 – 14.40	<b><u>Songül Yurtdaş, Süphan Karaytuğ &amp; Serdar Sönmez</u></b> Towards the revision of the genus <i>Laophonte</i> Philippi, 1840 (Copepoda, Harpacticoida): Developmental stages of <i>L. cornuta</i> Philippi, 1840 and taxonomic remarks on the <i>L. cornuta</i> species complex
14.40 – 15.00	<b><u>Nuran Özlem Yıldız &amp; Süphan Karaytuğ</u></b> Taxonomic revision of <i>Nitocra affinis</i> Gurney, 1927 species group (Harpacticoida: Ameiridae)

15.00 – 15.20	Coffee break
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## II – LIGHTNING TALKS

15.20 – 15.25	<b><u>Supawadee Chullasorn, Pawana Kangtia, Pradchek Klangsin, Sujittra Sorntang &amp; Sung Joon Song</u></b> A new species of <i>Leptastacus</i> T. Scott, 1906 (Copepoda: Harpacticoida: Leptastacidae) from the intertidal sandy beaches in Thailand
15.25 – 15.30	<b><u>Süphan Karaytuğ, Serdar Sak, Serdar Sönmez &amp; Okan Kulköylüoğlu</u></b> First and preliminary results on the Harpacticoida fauna of five islands in Western Antarctica
15.30 – 15.35	<b><u>Cennet Arslan, Süphan Karaytuğ &amp; Serdar Sönmez</u></b> Towards the revision of <i>Phyllopodopsyllus</i> T. Scott, 1906 (Copepoda, Harpacticoida) species distributed along the Turkish coasts
15.35 – 15.40	<b><u>Lesya Garlitska, Andrey Azovsky &amp; Elena Chertoprud</u></b> Community-level spatiotemporal synchrony: new metric and application to White Sea meiobenthic harpacticoids
15.40 – 15.45	<b><u>Michele Sciberras &amp; Catalina Di Rossi</u></b> The influence of riverine input on marine meiobenthic copepods

## III – THEMATIC POSTERS

<b>Hui Gao</b> Community characteristics and influencing factors of meiofauna in Beihai Mangrove Reserve, Guangxi, China
<b>Alper Kabaca &amp; Serdar Sak</b> A new species of the monotypic Genus <i>Troglophonte</i> Huys & Lee, 2000 (Copepoda, Harpacticoida, Laophontidae)
<b>Fanghong Mu, Ye Zhang, Yingchun Song, Juan Wang, Hui Gao &amp; Ran Hong</b> Abundance of leaf litter-dwelling harpacticoid from tropical and subtropical mangroves of China

<b>Ran Hong</b>
Potential food sources of meiofauna in mangrove forests
<b>Portianko Valentyn</b>
Harpacticoid copepod fauna of algal foulings in the Snake Island water area on the verge of the transition from ecological to mesotrophic to eutrophic
<b>Neelima Vasu K., S. Bijoy Nandan &amp; Regina Hershey</b>
Morphological studies of some epibenthic harpacticoid copepods from lagoon waters of Kadmat Island of Southeastern Arabian Sea
<b>Juan Wang</b>
Community characteristics of meiofauna in two mangrove reserves in Fujian Province

15.45 – 16.00	Additional Q&A Session 1
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## REGULAR SESSION 2: MARINE PLANKTON I

**Chairperson: Mark Ohman**

**Moderator: James Bernot**

16.00 – 16.20	<b><u>Hans G. Dam</u>, James A. deMayo, Gihong Park, Lydia Norton, Michael B. Finiguerra, Hannes Baumann, Reid S. Brennan &amp; Melissa H. Pespeni</b> Rapid, but limited, adaptation of <i>Acartia</i> species to combined warming and acidification
16.20 – 16.40	<b><u>James A. deMayo</u>, Michael B. Finiguerra, Reid S. Brennan, Melissa H. Pespeni, Hannes Baumann, Hans G. Dam</b> Variable trade-offs and costs following climate change adaptation in <i>Acartia</i> species
16.40 – 17.00	<b><u>Matthew Sasaki</u> &amp; Hans G. Dam</b> Synthesizing global patterns in copepod thermal limits
17.00 – 17.20	<b><u>Ewaldo Leitão</u>, Gihong Park, Lydia Norton, Josiah Grzywacz, Jessie Steadman, Luciana Santoferrara, George McManus &amp; Hans G. Dam</b> A 20-year retrospective analysis of Long Island Sound copepod trends in the 21 <sup>st</sup> century
17.20 – 17.40	<b><u>Reid S. Brennan</u>, James A. deMayo, Hans G. Dam, Michael Finiguerra, Hannes Baumann, Vince Buffalo &amp; Melissa H. Pespeni</b> Experimental evolution reveals the synergistic genomic mechanisms of adaptation to ocean warming and acidification in a marine copepod

17.40 – 18.00	Additional Q&A Session 2
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TUESDAY 26 JULY

**REGULAR SESSION 3: FRESHWATER COPEPODS I**

**Chairperson: Diana M. P. Galassi**

**Moderator: Tiziana Di Lorenzo**

8.40 – 9.00	<b><u>Mattia Di Cicco</u>, Tiziana Di Lorenzo, Barbara Fiasca &amp; Diana M.P. Galassi</b> Unravelling the sub-lethal effects of diclofenac on the swimming behaviour of the freshwater interstitial crustacean <i>Bryocamptus pygmaeus</i> (Crustacea, Copepoda, Harpacticoida)
9.00 – 9.20	<b><u>Maria Cristina Bruno</u>, Stefano Brighenti &amp; Monica Tolotti</b> Copepods coping with harsh environments: a case study in a deglaciating Alpine area
9.20 – 9.40	<b><u>Barbara Fiasca</u>, Ilaria Vaccarelli, Mattia Di Cicco, Agostina Tabilio Di Camillo, Francesco Cerasoli, Tiziana Di Lorenzo, Isabella S. Liso, Mario Parise &amp; Diana M. P. Galassi</b> Coping with the “Racovitzan impediment” in caves: unexpected discoveries open new horizons to the knowledge of groundwater copepods in southern Italy
9.40 – 10.00	<b><u>Francesco Cerasoli</u>, Mattia Di Cicco, Ilaria Vaccarelli, Barbara Fiasca, Tiziana Di Lorenzo &amp; Diana M. P. Galassi</b> Relationships between discharge and temporal changes of copepod diversity from groundwater-fed springs in Central Italy: implications for conservation in a global change scenario
10.00 – 10.20	<b><u>Ilaria Vaccarelli</u>, Fabio Stoch, Mattia Di Cicco, Barbara Fiasca, Francesco Cerasoli, Stefano Mammola &amp; Diana M. P. Galassi</b> Disentangling the effects of multiple environmental factors in shaping copepod distributions in cave waters: a lesson from the Lessinian unsaturated karst (north-eastern Italy)

10.20 – 10.40	Additional Q&A Session 3
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10.40 – 11.00	Coffee break
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**REGULAR SESSION 4: COPEPOD ANATOMY**

**Chairperson: Alexandra Savchenko**

**Moderator: Nancy Mercado Salas**

11.00 – 11.20	<b><u>Sota Kameda</u>, Yasuhide Nakamura, Akihiro Tuji, Koki Tokuhira, Masayuki Yoshida &amp; Susumu Ohtsuka</b> Novel discovery of sensory cells and organelles from oceanic detritivorous calanoids: Ultrastructure and presumed functions
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11.20 – 11.40	<b><u>Daria A. Yurikova</u>, Ksenia N. Kosobokova &amp; Alexandra S. Savchenko</b> Comparison of morphology of the reproductive system and reproductive strategies of cold-water calanoid copepods
11.40 – 12.00	<b><u>Atsushi Yamaguchi</u>, Yunosuke Koguchi, Carin J. Ashjian &amp; Katsunori Kimoto</b> Quantification of volumes of the copepod gut in the body by using micro X-ray CT scan: Comparison with the various shapes of the gut
12.00 – 12.20	<b><u>Irina Enshina</u>, Aleksei Miroljubov, Darya Krupenko, Georgii Kremnev, Natalia Shunatova, Alexandra Savchenko &amp; Rony Huys</b> Microanatomy of the endoparasitic copepod <i>Nucellicola</i> sp. (Copepoda: Chitonophilidae)

12.20 – 13.00	Lunch break
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## SYMPOSIUM 2: BIODIVERSITY AND EVOLUTION OF SYMBIOTIC COPEPODA

**Co-convenors: Danny Tang (Orange County Sanitation District) & Julianne Kalman Passarelli (Cabrillo Marine Aquarium)**

**Moderator: Daria Yurikova**

13.00 – 13.40	<b><u>Susumu Ohtsuka</u>, Yusuke Nishida, Yusuke Kondo, Danny Tang &amp; Geoffrey A. Boxshall</b> New discoveries on the development, life cycle and attachment mechanism of <i>Caligus</i>
13.40 – 14.20	<b><u>Rony Huys</u>, Irina Enshina, Georgii Kremnev, Darya Krupenko, Alexey Miroljubov &amp; Alexandra Savchenko</b> Origin of the Chitonophilidae: the pinnacle of radically divergent body plans in the Copepoda
14.20 – 14.40	Coffee break
14.40 – 15.20	<b>Daisuke Uyeno</b> Recent progress in the study of the diversity of copepods associated with molluscs in temperate and tropical waters
15.20 – 15.45	<b>Susan Dippenaar</b> A glimpse into the relationships and diversity of the Siphonostomatoida

## REGULAR SESSION 5: COPEPOD PHYSIOLOGY AND BIOCHEMISTRY

**Chairperson: Rony Huys**

**Moderator: Alexandra Savchenko**

15.45 – 16.05	<b><u>Atsushi Yamaguchi</u>, Yutaka Fukai, Yunosuke Koguchi &amp; Fumiaki Beppu</b> Rapid changes in copepod body color: observation of the large-sized planktonic <i>Neocalanus cristatus</i> copepodite V stage induced by the light conditions
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16.05 – 16.25	<p><b>Julieta Vigliano Relva, <u>Jens Boyen</u> &amp; Marleen De Troch</b></p> <p>Linking physiology and biochemistry: effects of temperature increase on metabolic rates and fatty acid content of the benthic copepod <i>Platychelipus littoralis</i></p>
16.25 – 16.45	<p><b><u>Robyn Sahota</u>, Jens Boyen, Ilias Semmouri, Samuel Bodé &amp; Marleen De Troch</b></p> <p>An inter-order comparison of copepod fatty acid composition and biosynthesis in response to a long-chain PUFA-deficient diet along a temperature gradient</p>
16.45 – 17.05	<p><b><u>Flavio Rotolo</u>, Isabella Buttino &amp; Ylenia Carotenuto</b></p> <p>Physiological and molecular effects of nickel in two congeneric copepod species</p>
17.05 – 17.20	Additional Q&A Session 5

WEDNESDAY 27 JULY

**REGULAR SESSION 6: MARINE PLANKTON II**

**Chairperson: Marco Uttieri**

**Moderator: Maria Cristina Bruno**

**I – ORAL PRESENTATIONS**

9.00 – 9.20	<b><u>Fabio Benedetti</u>, Jonas Wydler &amp; Meike Vogt</b> Patterns and drivers of copepod functional diversity in the global surface ocean
9.20 – 9.40	<b><u>Jordan Toullec</u>, Alice Delegrange, Adélaïde Perruchon, Gwendoline Duong, Vincent Cornille &amp; Michaël Hermoso</b> Coccolithophores allometry of inorganic carbon enhance copepod feeding response
9.40 – 10.00	<b>Leonid Svetlichny &amp; <u>Marco Uttieri</u></b> Temperature-dependent escape performance in the cyclopoid copepod <i>Oithona davisae</i>
10.00 – 10.20	<b><u>Jenny Huggett</u>, Margaux Noyon, Jacob Carstensen &amp; David Walker</b> Agulhas Bank copepods – spatial patterns and long-term variability
10.20 – 10.40	<b><u>Maya Bode-Dalby</u>, Randi Würth, Livia Dias Fernandes de Oliveira, Tarron Lamont, Hans M. Verheye, Anna Schukat, Wilhelm Hagen &amp; Holger Auel</b> Small is beautiful - The importance of small copepods in carbon budgets of the southern Benguela upwelling system

10.40 – 11.00 Coffee break

**Chairperson: Astrid Cornils**

**Moderator: Daria Yurikova**

**II – LIGHTNING TALKS**

11.00 – 11.05	<b><u>Lilia Mellak</u> &amp; Aziz Hafferssas</b> Spatio-temporal evolution of copepod abundances along the Algerian coast in the south Mediterranean (1°W – 8°E)
11.05 – 11.10	<b><u>Jessica Vannini</u>, Daniele Bellardini, Ylenia Carotenuto, Domenico D’Alelio, Priscilla Licandro &amp; Maria Grazia Mazzocchi</b> Copepod diversity and production along the Campania Coasts (Mediterranean Sea)
11.10 – 11.15	<b><u>Yunosuke Koguchi</u>, Koki Tokuhira, Carin J. Ashjian, Robert G. Campbell &amp; Atsushi Yamaguchi</b> Inter-species comparison of the copepodite stage morphology, vertical distribution, and seasonal population structure of five sympatric mesopelagic aetideid copepods in the Western Arctic Ocean

11.15 – 11.20	<b><u>Sun-Hee Lee</u>, Li-Chun Tseng, Yanguo Wang, Jiang-Shiou Hwang &amp; Juan Carlos Molinero</b> Contrasting responses of planktonic copepods and jellyfish to changes in ecosystem stability in the Northern Taiwan coast
11.20 – 11.25	<b><u>Alexandra Hahn &amp; Reid Brennan</u></b> Effects of plasticity and adaptation on the seasonal thermal tolerance of Baltic copepods
11.25 – 11.30	<b><u>Marco Cifoni &amp; Maria Grazia Mazzocchi</u></b> Microplastic ingestion by copepod species in the Gulf of Naples (Western Mediterranean Sea)
11.30 – 11.35	<b><u>Genuario Belmonte</u></b> A new species of <i>Stygocyclopia</i> (Calanoida, Pseudocyclopiidae) confirms the Tethyan distribution of anchialine organisms

### III – THEMATIC POSTERS

<b>Vera Vukanić &amp; Dušan Vukanić</b> Diversity of Copepoda in deeper Southern Adriatic Sea (NE Mediterranean)
<b>Paul Bertrand Sob Nangou, Juan Carlos Molinero Juan Carlos &amp; Serge Hubert Zebaze Togouet</b> Climate effects on planktonic copepods in the Gulf of Guinea
<b>Tuba Terbiyik Kurt, İbrahim Tan, Funda Üstün, Tamar Guy-Haim &amp; Ximena Velasquez</b> The status of non-indigenous copepod species in eutrophicated İzmir Bay (Aegean Sea)
<b>Ashish Sahu</b> The Ocean's gloriousness: Bioluminescent copepods

11.35 – 12.00	Additional Q&A Session 6
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12.00 – 13.00	Lunch break
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### REGULAR SESSION 7: MARINE PLANKTON III

**Chairperson: Iole Di Capua**

**Moderator: Nancy Mercado Salas**

#### I – ORAL PRESENTATIONS

13.00 – 13.20	<b><u>Érica C. Becker</u>, Luis C. P. de Macedo-Soares, Manoela C. Brandão, Maria Grazia Mazzocchi &amp; Andrea S. Freire</b> Ecological mechanisms shaping copepod functional diversity along biogeographic zones in the Southwestern Atlantic and Antarctic waters
13.20 – 13.40	<b><u>Lauren Ashlock</u>, Chelsea Darwin, Jessica Crooker, James deMayo, Hans Dam &amp; Melissa Pespeni</b> Developmental temperature defines thermal tolerance in copepods
13.40 – 14.00	<b><u>Alexander Barth</u> &amp; Joshua Stone</b>



	The morphology of migrators: how diel vertical migration varies between copepod morphotypes
14.00 – 14.20	<b><u>Karl Edward Velázquez-Ornelas</u>, Michel Edmond Hendrickx-Reners &amp; Eduardo Suárez-Morales</b> Taxonomical composition and geographical distribution of the marine deep-water Calanoida (Crustacea: Copepoda) in the Gulf of California, México
14.20 – 14.40	<b><u>Gabriel Bittencourt Farias</u>, Juan-Carlos Molinero, Sigrid Neumann Leitão, Mauro de Melo Júnior &amp; Pedro Augusto Mendes de Castro Melo</b> The demersal copepod community of a Southwestern Tropical Atlantic coastal reef between a dry and rainy season
14.40 – 15.00	<b><u>Aurora Gaona-Hernández</u>, Sharon Z. Herzka-Llona, Lorena P. Linacre-Rojas, Enric Sanz-Pallas, Rubén Lara-Lara, Jesus C. Comparé &amp; Eduardo Suárez-Morales</b> Calanoid copepod community structure related to oceanographic conditions in two contrasting regions of the southern Gulf of Mexico

15.00 – 15.20	Coffee break
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**Chairperson: Hans Dam**

**Moderator: James Bernot**

15.20 – 15.40	<b><u>Mark D. Ohman</u>, Sven Gastauer &amp; Jeffrey S. Ellen</b> Zooglider detection of planktonic copepods across the California Current Ecosystem
15.40 – 16.00	<b><u>Natasha J. Hynes</u>, Kimberley T.A. Davies, Christian Reiss, Jude van der Meer &amp; Alexander Cerra</b> Using a glider-mounted shadowgraph camera for characterizing zooplankton abundance and community composition in the Bay of Fundy, Canada
16.00 – 16.20	<b><u>Franco Antonio Rocha-Díaz</u>, María Adela Monreal-Gómez, Erik Coria-Monter, David Alberto Salas de León &amp; Elizabeth Durán-Campos</b> Copepods (Calanoida, Cyclopoida) and their relationship with the hydrography in the southern Gulf of California (Mexico) during the summer season (June) of 2019
16.20 – 16.40	<b><u>Ximena Velasquez</u>, Arseniy R. Morov, Natalia Belkin, Tuba Terbiyik Kurt, Maxim Rubin-Blum, Dan Tchernov, Dalit Meron &amp; Tamar Guy-Haim</b> Feeding strategy and dietary preference shape the microbiome of epipelagic copepods in a warm nutrient-impooverished ecosystem
16.40 – 17.00	<b><u>Kristie Rigby</u></b> Chemically mediated interactions play an important role in the ocean in terms of determining foraging choices and selection of mates and habitats

## II – LIGHTNING TALKS

17.00 – 17.05	<b><u>Joshua Stone</u> &amp; Dennis Allen</b> Long-term changes in copepod populations of North Inlet Estuary, SC from 1981–2017
17.05 – 17.10	<b><u>Bárbara Santos Menezes</u>, Cristina de Oliveira Dias, Mateus Gustavo Chuqui,</b>

	<b>Giulia Stefania de Campos, Daniel Leite Moreira &amp; Sérgio Luiz Costa Bonecker</b> Distribution of copepod families in the euphotic zone of Southern Brazilian Bight (SBB): functional traits and relation with water masses
17.10 – 17.15	<b>Bárbara Santos Menezes, Flora Balcão Agnelli, Érica Caroline Becker, Luis C. P. de Macedo-Soares, Cristina de Oliveira Dias &amp; Andrea Santarosa Freire</b> Copepod functional diversity in a shallow subtropical shelf - Southwestern Atlantic
17.15 – 17.20	<b>Maria Luz Fernandez de Puelles, Magdalena Gazá &amp; Santiago Hernández León</b> Spatial and vertical copepod distribution (0–800 m) in a W–E transect of the tropical and equatorial Atlantic ocean during spring: Salvador de Bahia-Canary's
17.20 – 17.25	<b>Karla Campos Verdecia &amp; José Ricardo Palomares Gracia</b> Egg production rate of <i>Acartia clausi</i> (Giesbrecht, 1889) in Bahía Concepción during an annual cycle

### III – THEMATIC POSTERS

<b>Alef Jonathan da Silva, Maria da Graça Gama Melão, Renata Polyana de Santana Campelo, Cynthia Dayanne Mello de Lima, Cláudio Severino de Santana, Beatrice Padovanni Ferreira, Pedro Augusto Mendes de Castro Melo &amp; Mauro de Melo Júnior</b> Has an increase in non-predatory mortality of planktonic copepods occurred in face of the 2019 oil spill in Brazil?	
<b>Mathew Holmes-Hackerd, Matthew Sasaki &amp; Hans G. Dam</b> High sensitivity respirometry shows no lingering effects of naupliar heat stress in <i>Acartia tonsa</i>	
<b>Karen Kineippe Knupfer, Cristina de Oliveira Dias, Julia Galetti Rodrigues, Rafael André Ávila, Sérgio Luiz Costa Bonecker &amp; Stefan Weigert</b> Copepod assemblages in a subtropical area off the southern coast of Brazil during early autumn	
<b>Cristina de Oliveira Dias, Bárbara Santos Menezes, Adriana Valente Araujo &amp; Sérgio Luiz Costa Bonecker</b> Copepod assemblage structure in a tropical eutrophic estuarine system: ecological indicators and functional groups	
<b>Karime de Araujo-Paina, Hugo Miguel Preto de Moraes Sarmiento, Gilmar Perbiche-Neves &amp; Maria da Graça Gama Melão</b> Variation in diversity and dissimilarity of copepods along 42 years in a shallow tropical reservoir caused by eutrophication and increase in droughts	
<b>Filipe Guilherme Ramos Costa Neves, José Rodrigues Pereira Filho, Sigrid Neumann Leitão &amp; Mauro de Melo Júnior</b> Copepoda from an estuarine system in the northeast of Brazil	

17.25 – 17.45	Additional Q&A Session 7
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THURSDAY 28 JULY

**REGULAR SESSION 8: FRESHWATER COPEPODS II**

**Chairperson: Nancy Mercado Salas**

**Moderator: Alexandra Savchenko**

**I – ORAL PRESENTATIONS**

9.00 – 9.20	<b><u>Aleksandr Novikov</u> &amp; Dayana Sharafutdinova</b> Sexual dimorphism of appendages in Canthocamptidae (Harpacticoida): role in taxonomy and relationship to sexual arms race
9.20 – 9.40	<b><u>Elena Kochanova</u>, Tatyana Mayor &amp; Risto Väinölä</b> Cryptic diversification of the harpacticoid copepod <i>Harpacticella inopinata</i> in Lake Baikal
9.40 – 10.00	<b><u>Jessica Titocci</u> &amp; Patrick Fink</b> Food quality impacts on reproductive traits, development and fatty acid composition of the freshwater calanoid copepod <i>Eudiaptomus</i> sp.
10.00 – 10.20	<b><u>Gihan Mahmoud Idris Sharief</u> &amp; El Amin El Rayah Mohamed</b> The taxonomy of six new freshwater species of cyclopoid copepods (Cyclopidae) of Sudan

**10.20 – 10.40** Coffee break

10.40 – 11.00	<b><u>Sarahi Jaime</u>, Adrián Cervantes-Martínez, Martha A. Gutiérrez-Aguirre, Eduardo Suárez-Morales, Manuel Elías-Gutiérrez &amp; Víctor H. Delgado-Blas</b> <i>Arctodiaptomus dorsalis</i> (Marsh, 1907) (Copepoda: Calanoida), a widespread species?
11.00 – 11.20	<b><u>Pedro Pereira</u>, Alberto Vieira Borges, Hugo Sarmiento. Pascal Isumbisho Mwapu, Jean-Pierre Descy, François Darchambeau, Steven Bouillon. Paulo H.C. Corgosinho, Eduardo Suárez-Morales, Barbara Souza, Carlos E. F. da Rocha &amp; Gilmar Perbiche-Neves</b> Copepod diversity along the Congo River Basin: a first approach

**II – LIGHTNING TALKS**

11.20 – 11.25	<b><u>Aleksandr Novikov</u>, Dayana Sharafutdinova &amp; Paulo H. C. Corgosinho</b> We know nothing about the stygofauna of microcrustaceans in the European part of Russia: two new genera of Copepoda in only two samples from Tatarstan
11.25 – 11.30	<b><u>Elizabeth A. Whitmore-Stolar</u>, Joseph K. Connolly, James M. Watkins &amp; Lars G. Rudstam</b> Recent non-native copepod introductions in Lake Erie
11.30 – 11.35	<b><u>Joseph K. Connolly</u>, Brian P. O'Malley, Patrick L. Hudson, James M. Watkins, Lyubov E. Burlakova &amp; Lars G. Rudstam</b>

	Importance of non-indigenous harpacticoids (Crustacea: Copepoda) decrease with depth in Lake Ontario
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### III – THEMATIC POSTERS

<b>Victor Alekseev &amp; Olga Chaban</b>
Some new records of continental cyclopids from the Far East of Russia
<b>Victor Alekseev &amp; Natalia Sukhikh</b>
Tethys Sea evolution and continental Calaniformes and Cyclopiformes orders world distribution
<b>Paulo Henrique Costa Corgosinho, Carlos Eduardo Falavigna da Rocha, Gilmar Perbiche Neves, Bruno Rocha Athayde Calixto, Ana Clara Ferraz Pereira &amp; Edinaldo Nelson dos Santos-Silva</b>
A new genus and species of a Parastenocarididae Chappuis, 1940 (Copepoda, Harpacticoida) from the Espinhaço Mountain Range (Brazil), Jequitinhonha Hydrographic Basin, with unclear phylogenetic position within the Fontinalicaridinae Schminke, 2010
<b>Paulo Henrique Costa Corgosinho, Sanda Iepure &amp; Aleksandr Novikov</b>
A new species of <i>Pseudomoraria</i> from an alpine spring of Picos de Europa, North of Spain
<b>Natália Ferreira, Mauro de Melo Júnior &amp; Karine Matos Magalhães</b>
Species richness patterns of freshwater organisms along ecological gradients
<b>Samuel Gómez</b>
<i>Paracyclops fiersi</i> sp. nov. (Cyclopoida, Cyclopidae), a new freshwater cyclopoid from north-western Mexico
<b>Ana Clara Ferraz Pereira, Bruno Rocha Athayde Calixto, Carlos Eduardo Falavigna da Rocha, Gilmar Perbiche Neves, Pedro Martínez Arbizu &amp; Paulo Henrique Costa Corgosinho</b>
Two new Brazilian species of the genus <i>Parastenocaris</i> Kessler (Copepoda, Harpacticoida, Parastenocarididae), and first report of the genus in the Neotropical Region
<b>Isabela de Lima-Keppe, Bruno G. N. Pralon &amp; Gilmar Perbiche-Neves</b>
The presence of a single large reservoir in a tropical river causes significant changes in the lotic patterns of composition, diversity and abundance of copepods
<b>Cláudio Simões de Morais Junior, Leidiane Pereira Diniz, Filipe Guilherme Ramos Costa Neves, Mauro de Melo Júnior &amp; Odete Rocha</b>
Rainy season onset in copepod's life under harsh semi-arid environment
<b>Ítalo Luã Silva Medeiros &amp; Mauro de Melo Júnior</b>
Potential vectors of propagules and the effects of their exclusion on the establishment of bromeliad copepods
<b>Josefa Luana de Aguiar Silva, Mauro de Melo Júnior &amp; Viviane Lúcia dos Santos Almeida de Melo</b>
Non-predatory mortality of planktonic copepods in reservoirs in the Brazilian tropical semi-arid region
<b>Natalia Sukhikh, Denis Zavarzin &amp; Victor Alekseev</b>
Origin of <i>Eurytemora</i> ( <i>affinis</i> group) from the Russian Far East and Japan

11.35 – 12.00	Additional Q&A Session 8
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12.00 – 13.00	Lunch break
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13.00 – 14.00	<b>KEYNOTE LECTURE</b> <b>J. Rudi Strickler</b> The copepod's domain
14.00 – 15.00	<b>MAXILLIPED LECTURE</b> by <b>Diana M. P. GALASSI</b> , President of WAC
15.00 – 15.20	Coffee break
15.20 – 15.40	<b>PRESENTATION OF 2022 MONOCULUS AWARD</b>
15.40 – 17.30	<b>WAC BUSINESS MEETING</b> <ul style="list-style-type: none"> <li>• Members of the Executive Council will present the Society's financial reports, overview of activities for 2017–2022 and plans for 2022–2024</li> <li>• Online voting of WAC officers for 2022–2024: Announcement of nominees standing for election</li> </ul>
18.00	<b>ACTIVATION OF VOTING BUTTONS FOR ELECTION OF NEW WAC OFFICERS</b> (accessible to WAC members only)

FRIDAY 29 JULY

**REGULAR SESSION 9: SYMBIOTIC COPEPODS**

**Chairperson: Susumu Ohtsuka**

**Moderator: Rony Huys**

**I – ORAL PRESENTATIONS**

9.00 – 9.20	<b><u>Nanami Yumura</u>, Kenta Adachi, Masato Nitta, Yusuke Kondo, Sota Komeda, Kaori Wakabayashi, Jun Fukuchi, Geoffrey A. Boxshall &amp; Susumu Ohtsuka</b> Exploring evolutionary trends within the Pennellidae (Copepoda: Siphonostomatoida) using molecular data
9.20 – 9.40	<b><u>Yusuke Nishida</u>, Susumu Ohtsuka, Yusuke Kondo, Sadaharu Iwasaki</b> Seasonal fluctuations in the occurrence of two species of sea lice (Crustacea: Copepoda: Caligidae), <i>Caligus sclerotinosus</i> , and <i>Lepeophtheirus sekii</i> on wild red seabream <i>Pagrus major</i> in the Seto Inland Sea, Japan
9.40 – 10.00	<b><u>Rina Hashimoto</u> &amp; Daisuke Uyeno</b> Two species of the genus <i>Anthessius</i> (Copepoda: Cyclopoida: Anthessiidae) associated with aplysiid gastropods from coastal waters in southern Japan
10.00 – 10.20	<b><u>Daria A. Yurikova</u>, Alexandra S. Savchenko &amp; Andrey A. Prudkovsky</b> Closing the life cycle of <i>Monstrillopsis ferrarii</i> Suárez-Morales and Ivanenko, 2004 (Copepoda: Monstrilloida): discovery of the male and the parasitic stage in the White Sea
10.20 – 10.40	<b><u>Quinton Marco Dos Santos</u>, Annemarië Avenant-Oldewage, Wojciech Piasecki, Kálmán Molnár, Boglárka Sellyei &amp; Csaba Székely</b> Triple infection of wels catfish ( <i>Silurus glanis</i> ) by three distinct Ergasilidae in the Danube River basin, Hungary

10.40 – 11.00 Coffee break

**Chairperson: Alexandra Savchenko**

**Moderator: Daria Yurikova**

11.00 – 11.20	<b><u>Melita M. Sebone</u> &amp; Susan M. Dippenaar</b> Sphyrriidae females infecting marine teleosts off the South African coast
11.20 – 11.40	<b><u>Maxwell Barson</u>, Atridah Mulonga, Bruce Clegg, Tamuka Nhiwatiwa &amp; Tatenda Dalu</b> Impact of climate change on persistence of a <i>Lernaea cyprinacea</i> Linnaeus 1758 (Copepoda: Lernaeidae) infestation on fish species in a man-made reservoir in Zimbabwe

11.40 – 12.00	<b>James Omondi Outa, Quinton Marco Dos Santos, Annemariè Avenant-Oldewage &amp; Franz Jirsa</b> Parasitic copepods of cichlids from Lake Victoria, East Africa: indicators of environmental changes?
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12.00 – 13.00	Lunch break
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13.00 – 13.20	<b>Julianne Kalman Passarelli, Danny Tang &amp; Larry G. Allen</b> A redescription of <i>Lepeophtheirus longipes</i> Wilson, 1905 (Copepoda; Caligidae) parasitic on giant sea bass, <i>Stereolepis gigas</i> Ayres, 1859 (Polyprionidae), off California
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## II – LIGHTNING TALKS

13.20 – 13.25	<b>Yusuke Kondo, Sota Komeda, Susumu Ohtsuka, Panakkool Thamban Aneesh, Tran Manh Ha, Pham The Thu, Sho Toshino, Akane Iida &amp; Jun Nishikawa</b> An account on all copepodid stages of <i>Paramacrochiron tridentatum</i> Ohtsuka, Ha & Thu 2020 (Copepoda: Cyclopoida: Macrochironidae) associated with the rhizostome jellyfish <i>Versurigaana dyoneme</i> with notes on its affinity to the lichomolgoid complex
13.25 – 13.30	<b>Rodrigo Bravin Narciso, Diego Henrique Mirandola Dias Vieira &amp; Reinaldo José da Silva</b> Parasitic ergasilid fauna (Copepoda: Ergasilidae) of freshwater fishes from three rivers of the State of São Paulo, Brazil
13.30 – 13.35	<b>Christopher Marshall, Joseph Connolly &amp; Patrick Hudson</b> Distribution and ecology of <i>Ergasilus cotti</i> (Kellicott 1892) from mottled sculpin and rainbow darter
13.35 – 13.40	<b>Beric M. Gilbert, Milen Nachev, Bernd Sures &amp; Annemariè Avenant-Oldewage</b> Stable isotope fractionation patterns reveal dietary shifts among developmental stages of <i>Argulus japonicus</i> (Crustacea: Branchiura)

## III – THEMATIC POSTERS

<b>João Victor Couto, Fabiano Paschoal, José Luis Luque &amp; Felipe Bisaggio Pereira</b> <i>Colobomatus</i> sp. (Cyclopoida: Philichthyidae) parasitic in the interorbital canals of <i>Diapterus rhombeus</i> (Cuvier, 1829) (Actinopterygii: Gerreidae) from the Sepetiba Bay, southeastern Brazil
<b>Ilhem Hamdi, Margarida Hermida, Seyit Ali Kamanli &amp; Argun Akif Özak</b> Caligid parasites of some sparid fishes from Madeira Island (Portugal, Atlantic)
<b>João Victor Couto, Aldenice de Nazaré Peireira, José Luis Luque, Fabiano Paschoal &amp; Felipe Bisaggio Pereira</b> Two species of <i>Acusicola</i> Cressey, 1970 (Cyclopoida: Ergasilidae) parasitic on actinopterygian fish off Brazil
<b>Vahid Sepahvand</b> <i>Clausidium</i> copepods and their ghost shrimps hosts: mutualism or parasitism?

**Terue Kihara & Pedro Martínez Arbizu**

Distribution of the copepod genus *Stygiopontius* (Siphonostomatoida, Dirivultidae) in the Indian Ocean deep-sea hydrothermal vents

**Ricardo Palomares-García, José Raúl Morales-Ávila & Ricardo J. Saldierna-Martínez**

Novel interaction between *Microsetella norvegica* (Copepoda) and *Pleurobrachia bachei* (Ctenophora) reveals micropredation, parasitism and protelean life cycle

13.40 – 14.00	Additional Q&A Session 9
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**SYMPOSIUM 3: LIVING UNDERGROUND: DIVERSITY, ECOLOGY AND EVOLUTION OF GROUNDWATER COPEPODS**

**Co-convenors: Diana Galassi (University of L'Aquila) & Tiziana Di Lorenzo (Istituto di Ricerca sugli Ecosistemi Terrestri, Consiglio Nazionale delle Ricerche – IRET-CNR)**

**Moderator: Maria Cristina Bruno**

14.00 – 14.40	<b>Anton Brancelj</b> Subterranean Copepoda in Southeast Asia – what do we know about them?
14.40 – 15.20	<b>Paulo Corgosinho</b> Living between the grains: What do we know about the systematics, biogeography and phylogenetic position of the family Parastenocarididae?
15.20 – 15.40	Coffee break
15.40 – 16.20	<b>Tiziana Di Lorenzo</b> Do groundwater copepods have narrower trait ranges than surface-water copepods?
16.20 – 17.00	<b>Eduardo Suárez-Morales</b> Living in Xibalbás realm: diversity, distribution and conservation of anchialine copepods of the Yucatán Peninsula

23.59	<b>ONLINE VOTING OF NEW WAC OFFICERS CLOSES</b>
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SATURDAY 30 JULY

**SYMPOSIUM 4: COPEPODA FROM SURFACE FRESHWATER HABITATS**

**Co-convenors: Nancy Mercado Salas (Leibniz Institute for the Analysis of Biodiversity Change) & Grace Wyngaard (James Madison University)**

**Moderator: Tiziana Di Lorenzo**

9.00 – 9.40	<b>La-orsri Sanoamuang</b> Diaptomid copepod diversity and zoogeographic distribution in freshwater ecosystems of the lower Mekong River Basin (Calanoida: Diaptomidae)
9.40 – 10.20	<b>Nancy Mercado Salas, Sahar Khodami, Pedro Martínez Arbizu, Diego Fontaneto &amp; Alejandro Martínez</b> Copepods in oddly investigated continental habitats: the phytotelmata case
10.20 – 10.40	Coffee break
10.40 – 11.20	<b>Gilmar Perbiche Neves, Victor Satoru Saito, Hugo Sarmento, Alberto Vieira Borges, Pascal Isumbisho Mwapu, Jean Pierre Descy, François Darchambeau, Steven Bouillon, Pedro Pereira, Karime Araújo Paina, Paulo H. Corgosinho, Eduardo Suárez-Morales &amp; Carlos Eduardo Falavigna da Rocha</b> Neotropical and Afrotropical freshwater copepods: recent advances
11.20 – 12.00	<b>Grace Wyngaard, Maxim Zagoskin &amp; Andrey Grishanin</b> The curious cases of the shrinking genomes: Copepods as a puzzle piece in understanding chromatin diminution

12.00 – 13.00 Lunch break

**REGULAR SESSION 10: GENOMICS, GENETICS AND BARCODING**

**Chairperson: James Bernot**

**Moderator: Alexandra Savchenko**

**I – ORAL PRESENTATIONS**

13.00 – 13.20	<b>Katja Uhlenkott, Sven Rossel, Janna Peters, Annemiek Vink &amp; Pedro Martínez Arbizu</b> Investigating meiobenthic copepods from the Clarion-Clipperton Fracture Zone with MALDI-TOF MS and DNA-barcoding
13.20 – 13.40	<b>Dilara Bakmaz, Serdar Sönmez &amp; Ertan Mahir Korkmaz</b> Species delimitation of <i>Arenosetella</i> spp. (Harpacticoida; Ectinosomatidae) living along the Turkish coasts with dual barcoding analysis
13.40 – 14.00	<b>Miguel A. Martínez-Mercado, Clara M. Hereu, Aurora Gaona-Hernández, Anaid Saavedra-Flores, Javier-Robles-Flores, Eduardo Suárez-Morales, Clara E. Galindo-Sánchez &amp; Sharon Z. Herzka</b> Multilocus metabarcoding for calanoid copepod diversity assessment in the

	epipelagic central Gulf of Mexico
14.00 – 14.20	<b><u>Stephanie A. Matthews</u>, Leocadio Blanco-Bercial &amp; Mark D. Ohman</b> A trait-based analysis of connectivity among epipelagic and mesopelagic copepod communities across the North Pacific Basin assessed by metabarcoding
14.20 – 14.40	<b><u>Sven Rossel</u>, Patricia Kaiser, Maya Bode-Dalby, Jasmin Renz, Silke Laakmann, Holger Auel, Wilhelm Hagen, Pedro Martínez Arbizu &amp; Janna Peters</b> Proteomic fingerprinting enables quantitative biodiversity assessments of species and ontogenetic stages in <i>Calanus</i> congeners (Copepoda, Crustacea) from the Arctic Ocean
14.40 – 15.00	<b><u>Jens Boyen</u>, Alberto Ribes-Navarro, Naoki Kabeya, Óscar Monroig, Annelien Rigaux, Patrick Fink, Pascal Hablützel, Juan Carlos Navarro &amp; Marleen De Troch</b> Functional characterization reveals a diverse repertoire of copepod polyunsaturated fatty acid biosynthesis genes

15.00 – 15.20	Coffee break
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**Chairperson: Grace Wyngaard**

**Moderator: Rony Huys**

15.20 – 15.40	<b><u>Quinton Marco Dos Santos</u>, Nehemiah Mogoi Rindoria, Nyasha Mabika, Maxwell Barson &amp; Annemarië Avenant-Oldewage</b> Genetic characterisation and phylogenetic study of four <i>Lamproglena</i> (Copepoda: Lernaecidae) species from Africa
15.40 – 16.00	<b><u>Aimee Deconinck</u> &amp; Chris Willett</b> Hybridization does not produce heterosis for hypoxia in <i>Tigriopus californicus</i>
16.00 – 16.20	<b>James P. Bernot</b> Towards an AHE probe set for copepod phylogenomics

## II – LIGHTNING TALKS

16.20 – 16.25	<b><u>Yu Zang</u>, Jianwei Chen, Chang Chen, Zeqi Zheng, Zhihao Zhang, Huan Zhang, Hongju Chen, Guangxing Liu &amp; Yunyun Zhuang</b> DNA metabarcoding reveals the high genetic diversity of <i>in situ</i> diet and symbiont assembly in marine copepods
16.25 – 16.30	<b><u>Yunzhi Feng</u>, Dong Sun, Qianwen Shao &amp; Chunsheng Wang</b> Biodiversity and diel vertical migration of copepod community revealed by eDNA metabarcoding in the northwestern tropical Pacific Ocean
16.30 – 16.35	<b><u>Javier Urbán Olivares</u>, José Miguel Carreto Romero, Elizabeth Ortega Mayagoitia &amp; Jorge Ciro Pérez</b> Assembly, annotation, and phylogenetic analysis of the mitochondrial genomes of <i>Leptodiptomus</i> copepods
16.35 – 16.40	<b><u>José Miguel Carreto-Romero</u> &amp; Elizabeth Ortega-Mayagoitia</b> Patterns of genome size evolution in calanoid copepods: phylogenetic signal and habitat effects

### III – THEMATIC POSTER

**Jingyi Zhu, Yunyun Zhuang, Huan Zhang, Hongju Chen & Guangxing Liu**

Diversity and structure of spliced-leader RNA and their genes in copepods

16.40 – 17.00 | Additional Q&A Session 10

17.00 – 17.15 | Break

17.15 –

- Announcement of new WAC officers, Zbigniew Kabata Student Award, and additional student awards for best oral presentations and posters
- Closing address by the newly elected President
- Closure of e-ICOC