



SEVENTH IMCO

17th International Meiofauna Conference 7 - 12th July 2019 | University of Évora

CONFERENCE PROGRAM



centro de
ciências do mar
e do ambiente



UNIVERSIDADE
DE ÉVORA

Organizers



MARE

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Instituto de Ciências Agrárias e Ambientais Mediterrânicas



UNIVERSIDADE DE ÉVORA
ESCOLA DE CIÊNCIAS E TECNOLOGIA

Preface

MARE - Marine and Environmental Sciences Centre, the University of Évora, together with the International Association of Meiobenthologists are proud to welcome the 17th International Meiofauna Conference (SeventIMCO). SeventIMCO is a major assembly to present and share advances in meiofaunal research and this year it becomes a historical meiofauna conference, celebrating its 50th anniversary (1969-2019).

Previous conferences have been held in Tunis, Tunisia (1969), York, England (1973), Hamburg, Germany (1977), Columbia, USA (1980), Ghent, Belgium (1983), Tampa, USA (1986), Vienna, Austria (1989), Maryland, USA (1992), Perpignan, France (1995), Plymouth, England (1998), Boston, USA (2001), Ravenna, Italy (2004), Recife, Brazil (2007), Ghent, Belgium (2010), Seoul, South Korea (2013) and Heraklion, Greece (2016). The 2019 edition, SeventIMCO, is hosted by MARE - Marine Environmental Sciences Centre - University of Évora, in the beautiful cultural heritage town of Évora, in Portugal.

This year, 7 keynote presentations, 74 oral presentations and 78 poster presentations are included in the program, which are distributed over 34 countries and 125 corresponding authors. Their contributions are distributed by the following themes, representing emerging topics of meiofauna research:

- Advances in taxonomy, phylogeny and biogeography.
- Meiofauna biodiversity patterns and ecosystem interactions (including freshwater, estuarine coastal and ocean, deep sea and frontiers ecosystems).
- Meiofauna in a changing world: meiofauna response to natural and anthropogenic pressures.
- Methodologic advances in meiofaunal studies: New tools and analytical and experimental approaches.
- Meiofauna and Science communication to Society.

We have also organized a new initiative: networking sessions. This is a dynamic encounter aimed at connecting early-career scientists with senior scientists to exchange ideas, collaborate and even identify research priorities for the next decade of meiofauna sciences.

SeventIMCO addresses various challenges that meiofauna research is facing nowadays, inspiring scientists to think beyond and across disciplines and ecosystems, to embrace innovative technologies and approaches. The participants are particularly encouraged to consider and discuss the contribution of meiofauna studies to support management decisions regarding the sustainable use of the marine and freshwater ecosystems.

We hope you enjoy the meeting and take with you good memories of the SeventIMCO and Évora!

Helena Adão
Chair of SeventIMCO

Committees

Scientific Committee

Ann Vanreusel, Ghent University, Belgium

Cláudia Vicente, ICAAM - Instituto de Ciências Agrárias e Ambientais Mediterrânicas, University of Évora, Portugal

Daniela Zeppilli, IFREMER- Institut Français de Recherche pour l'Exploitation de la MER, Laboratoire Environnement Profond, France

Fabiane Galluci, UNIFESP - Federal University of São Paulo, Brazil

Federica Semprucci, UNIURB - Università degli Studi di Urbino "Carlo Bo", Italy

Helena Adão, MARE- Marine and Environmental Sciences Centre, University of Évora, Portugal

Jeroen Ingels, Research Faculty at Florida State University, Coastal and Marine Lab, USA

Katarzyna Sroczynska, MARE - Marine and Environmental Sciences Centre, University of Évora, Portugal

Margarida Espada, ICAAM - Instituto de Ciências Agrárias e Ambientais Mediterrânicas, University of Évora, Portugal

Michaela Schratzberger, CEFAS - Centre for Environment, Fisheries and Aquaculture Science, United Kingdom

Nikolaos Lampadariou, HCMR - Hellenic Center for Marine Research, Greece

Sofie Deryche, ILVO - Institute for agriculture and fisheries, Belgium

Tom Moens, Ghent University, Belgium

Vadim Mokievsky, P.P. Shirshov Institute of Oceanology, Russia

Walter Traunspurger, Bielefeld University, Germany

Wonchoel Lee, Hanyang University, Korea

Local Organizing Committees

- Helena Adão**, MARE - Marine and Environmental Sciences Centre, University of Évora
- Cláudia Vicente**, ICAAM - Instituto de Ciências Agrárias e Ambientais Mediterrânicas, University of Évora
- Margarida Espada**, ICAAM - Instituto de Ciências Agrárias e Ambientais Mediterrânicas, University of Évora
- Mourad Bezzeghoud**, School of Sciences and Technology, University of Évora
- Luiz Carlos Gazarini**, Biology Department, University of Évora
- Jorge Araújo**, Biology Department, University of Évora
- Soraia Vieira**, MARE - Marine and Environmental Sciences Centre, University of Évora
- Mélanie Costa**, MARE - Marine and Environmental Sciences Centre, University of Évora
- Hortense dos Santos**, School of Sciences and Technology, University of Évora

Conference Secretariat

University of Évora

School of Science and Technology

Colégio António Verney, Rua Romão Ramalho, nº59, 7000-671, Évora, Portugal

Email: 17imc2019@uevora.pt | Phone: +351 266745371

Venue



GPS : 38 34 23,13 N, 7 54 15,99 W

Grand Auditorium | Colégio do Espírito Santo,

Largo dos Colegiais, 2 | Apartado 94, 7002-554 Évora

Entrance - R. do Cardeal Rei

Conference Information

Internet

All participants and guests will have access to free Wi-Fi Internet service:



username : SeventIMCO
password : SeventIMCO



@ImcoSevent

Meeting Halls Overview

Oral Presentations

Grand Auditorium

Posters

Grand Auditorium

Registration Desk

Entry of the Grand Auditorium

Coffee Break Area

Coffee break room

Lunch

Canteen (room 129)

Registration Desk Opening Hours

Sunday, 7th July	17:00 – 20:30
Monday, 8th July	08:30 – 18:00
Tuesday, 9th July	08:30 – 18:30
Thursday, 11th July	08:30 – 17:30
Friday, 12th July	08:30 – 14:00

Speaker's Desk

Speakers are kindly requested to hand in their presentations to the Organizing Committee:

- For Monday morning sessions, July 8th, until 19:00 of Sunday
- For Monday afternoon sessions, July 8th, until 10:30 of the same day
- For sessions of July 9th till July 12th, no later than the day before the presentations are scheduled

Certificate of Attendance

The Certificate of Attendance will be send via e-mail after the conference.

Badges

All participants are requested to wear their badges throughout the meeting in order to be admitted to the lecture halls and other scheduled activities.

Scientific & Technical Information

Social Events

Sunday, 7 July 2019 • Grand Auditorium

17:00 – 20:30 Welcome reception (For all registered participants)

Tuesday, 9 July 2019 • Grand Auditorium

18:30 – 20:30 Poster Presentation Session - “Alentejo de Honra”

Wednesday, 10 July 2019

08:45 – 13:00 Alentejo Excursion: Visit to Monsaraz village (cultural heritage) and wine tasting

16:00 - 17:15 Thematic Session:
50th anniversary of the IMCO Conference at the Grand Auditorium

Thursday, 11 July 2019

19:30 Gala Dinner (For all registered participants)

≡ Program at a glance

≡ Scientific Program

Monday, 8 July
09:00 - 18:30

Tuesday, 9 July
08:45 - 20:30

Thursday, 11 July
08:45 - 17:30

Friday, 12 July
08:45 - 15:30

17:00 - 20:30 Registration and Welcome Reception

08:30 - 18:00	Registration
09:00 - 09:30	Opening session
THEME	Meiofauna biodiversity patterns and ecosystem interactions (including Freshwater, Estuarine Coastal and Ocean, Deep sea and Frontiers ecosystems)
09:30 - 10:15	Jeroen Ingels (Keynote) Not just scratching the surface – Adding deep-sea meiofauna to the bigger picture
10:15 - 10:45	Coffee Break
10:45 - 13:00	Oral Presentations
13:00 - 14:15	Lunch
THEME	Methodologic advances in meiofaunal studies: new tools and analytical and experimental approaches
14:15 - 15:00	Sofie Derycke (Keynote) New methods for the generation of DNA signatures from marine nematode communities and their application in meiofauna ecology
15:00 - 15:30	Oral Presentations
15:30 - 16:00	Coffee Break
16:00 - 18:30	Oral presentations

THEME	Meiofauna biodiversity patterns and ecosystem interactions (including Freshwater, Estuarine Coastal and Ocean, Deep sea and Frontiers ecosystems)
08:45 - 09:30	Nabil Majdi (Keynote) An overview of the ecology of meiofauna in freshwater ecosystems
09:30 - 10:15	Oral Presentations
10:15 - 10:45	Coffee Break
10:45 - 12:45	Oral Presentations
12:45 - 14:15	Lunch
THEME	Advances in taxonomy, phylogeny and biogeography
14:15 - 15:00	Paulo Fontoura (Keynote) Biodiversity of marine tardigrades: from intertidal to abyssal depths
15:00 - 15:30	Oral Presentations
15:30 - 16:00	Coffee Break
16:00 - 18:15	Oral Presentations
18:15 - 20:30	Poster Session

09:00 - 13:00	Alentejo Excursion: Visit to Monsaraz village (cultural heritage) and wine tasting
16:00 - 17:15	Thematic Session: 50th anniversary of the IMCO Conference Prof. Dr. Ann Vanreusel (Ghent University) Prof. (em.) Dr. Olav Giere "Quo Vadis, Meiobenthology? Reflections, Perspectives and Conclusions"

THEME	Meiofauna in a changing world: meiofauna response to natural and anthropogenic pressures.
08:45 - 09:30	Federica Semprucci (Keynote) Quantifying the relative impacts of human activities on the coastal systems using free-living nematodes
09:30 - 10:15	Oral Presentations
10:15 - 10:45	Coffee Break
10:45 - 12:45	Oral Presentations
12:45 - 14:15	Lunch
14:15 - 15:30	Oral presentations
15:30 - 16:00	Coffee Break & Group photo
16:00 - 17:00	Oral Presentations

17:00 - 18:00	Networking Discussions with Researchers
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17:30 - 18:30	IAM Executive Committee Meeting
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19:30 - 22:30	Gala Dinner
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Friday, July 12th

Program at a glance

THEME	Meiofauna and Science communication to Society
08:45 - 09:30	Michaela Schratzberger (Keynote) Invisible allies: what can meiofauna tell us about a changing world?
09:30 - 10:15	Oral Presentations
10:15 - 10:45	Coffee Break
10:45 - 12:45	Oral Presentations
12:45 - 14:15	Lunch
14:15 - 15:30	General Assembly Meeting

17:00 -20:30 Registration and Welcome reception

08:30 - 18:00 Registration

09:00 - 09:30 Opening session

THEME: Meiofauna biodiversity patterns and ecosystem interactions (including Freshwater, Estuarine Coastal and Ocean, Deep sea and Frontiers ecosystems)

09:30 - 10:15 **Jeroen Ingels** (Keynote)
Not just scratching the surface – Adding deep-sea meiofauna to the bigger picture

10:15 - 10:45 Coffee Break

Chair: Daniela Zeppilli

10:45 - 11:00 **(ID 6031) Nikolaos Lampadariou, Katerina Sevastou**
Free-living marine nematodes from cold seeps of the Olimpi mud volcano field in the eastern Mediterranean

11:00 - 11:15 **(ID 5825) Elisa Baldrighi, Daniela Zeppilli, Luca Apolloni, Luigia Donnarumma, Roberto Sandulli**
Meiofaunal communities and nematode diversity characterizing the Secca delle Fumose shallow vent area (Gulf of Naples, Italy)

11:15 - 11:30 **(ID 5942) Mauricio Shimabukuro, Frank Wenzhofer, Daniel Leduc, Mathias Zabel, Ronnie N. Glud, Daniela Zeppilli**
Ecology of meiofauna of the Atacama Trench – bathymetric variation and comparison with the less productive Kermadec Trench

- 11:30 - 11:45 **(ID 5944) Katarzyna Grzelak, Martin V. Sørensen**
Kinorhynch diversity around Svalbard: spatial patterns and environmental drivers
- 11:45 - 12:00 **(ID 5971) Nuria Sánchez, Daniela Zeppilli, Max Lahitsiresy, Elisa Baldrighi, Christophe Brandily, Ann Vanreusel, Lara Macheriotou, Karine Olu**
A threefold perspective on the role of cold seeps on benthic fauna assemblages and biodiversity patterns
- 12:00 - 12:15 **(ID 5858) Barbara Górska, Maria Włodarska-Kowalczyk**
When does meiofauna take the lead in benthic functioning? Arctic examples
- 12:15 - 12:30 **(ID 5915) Daniel Leduc, Scott D. Nodder, Ashley A. Rowden, Katrin Berkenbusch, Anna Wood, Fabio De Leo, Craig Smith, Julie Brown, Sarah J. Bury, Arne Pallentin**
Meio - and macrofauna of two canyons with contrasting land to deep-sea connectivity on New Zealand's continental margin
- 12:30 - 12:45 **(ID 5943) Keith Walters**
Benthic emergence: an unacknowledged contributor to the ocean's biological carbon pump
- 12:45 - 13:00 **(ID 6055) Stephen C. Landers, Randall Bassham, Jonathan M. Miller, Jeroen Ingels, Nuria Sánchez, Martin V. Sørensen**
Kinorhynch diversity on the Alabama coast

13:00 - 14:15 Lunch

THEME: Methodologic advances in meiofaunal studies: new tools and analytical and experimental approaches

- 14:15 - 15:00 **Sofie Derycke** (Keynote)
New methods for the generation of DNA signatures from marine nematode communities and their application in meiofauna ecology

Chair: Fabiane Galluci

- 15:00 - 15:15 **(ID 6006) Florian Scharhauser, Harald Gruber - Vodicka, Nikolaus Leisch, Gabriela Dangl, Philipp Pröts, Jörg Ott**
Genetic barcoding in marine nematodes - promises and pitfalls
- 15:15- 15:30 **(ID 6012) Nele De Meester, Sofie Derycke, Annelien Rigaux, Tom Moens**
Inter- and intraspecific competition influence the resource utilization and niche width of closely related nematode species

15:30 - 16:00 Coffee Break

Chair: Ann Vanreusel

- 16:00 - 16:15 **(ID 6048) Anna-Maria Vafeiadou, Nele De Meester, Annelien Rigaux, Sofie Derycke, Tom Moens**
Microbiome partitioning of coexisting nematode species in shared microhabitats: insights of a metagenetic analysis
- 16:15 - 16:30 **(ID 6039) Joseph Sevigny, Anthony Westbrook, Francesca Leasi, Emily Briggs, Stephen Simpson, W. Kelley Thomas**
Improved Mitochondrial Metagenomic Methods for Analyzing Meiofaunal Communities
- 16:30 - 16:45 **(ID 6068) Paulo JP Santos, Aliny FS Barreto, Ana BHP Costa, Julia R Neves, Rodolfo FM Nascimento, Visnu C Sarmiento**
On the use of artificial substrates to evaluate environment differences using meiofaunal communities
- 16:45 - 17:00 **(ID 6016) Gustavo Fonseca, Marco Brustolini, Danilo Candido Vieira, Fabio Cop Ferreira**
New multivariate approaches to access and predict metacommunity patterns
- 17:00 - 17:15 **(ID 5968) Noémie Deldicq, Seuront L, Bouchet V.M.P**
Unity makes strength: high contribution of intertidal benthic foraminifera to sediment reworking.

- 17:15 - 17:30 **(ID 5966) Terue C. Kihara, Viola Siegler, Pedro Martínez Arbizu**
Confocal Laser Scanning Microscopy (CLSM) and 3D visualization: an imaging workflow to study meiofauna
- 17:30 - 17:45 **(ID 6024) Danilo Cândido Vieira, Gustavo Fonseca**
Integrating simulations and experimentation to predict community responses to disturbance and immigration regimes
- 17:45 - 18:00 **(ID 5923) Sven Rossel, Pedro Martínez Arbizu**
Unsupervised meiofauna biodiversity estimation using MALDI-TOF MS data
- 18:00 - 18:15 **(ID 5936) Hidetaka Nomaki, Yuki Uejima, Nanako O Ogawa, Masako Yamane, Hiromi K Watanabe, Reina Senokuchi, Joan M Bernhard, Tomo Kitahashi, Yosuke Miyairi, Yusuke Yokoyama, Naohiko Ohkouchi, Motohiro Shimanaga**
Nutritional sources of hydrothermal vent meiofauna revealed by natural-abundance radiocarbon and stable isotope analyses
- 18:15 - 18:30 **(ID 6034) Tania Nara Bezerra, Wilfrida Decraemer, Ursula Eisendle-Flöckner, Oleksandr Holovachov, Reyes Peña Santiago, Daniel Leduc, Dmitry Miljutin, Jyotsna Sharma, Nic Smol, Alexei Tchesunov, Vadim Mokievsky, Virág Venekey, Zeng Zhao, Mike Hodda, Ann Vanreusel**
Update on Nemys/WoRMS – An evolving online database with taxonomic and ecological information on nematodes

THEME: Meiofauna biodiversity patterns and ecosystem interactions (including Freshwater, Estuarine Coastal and Ocean, Deep sea and Frontiers ecosystems)

08:45 - 09:30 **Nabil Majdi** (Keynote)
An overview of the ecology of meiofauna in freshwater ecosystems

Chair: Walter Traunspurger

09:30 - 09:45 (ID 5955) **Julie Neury-Ormanni, Margot Wagner, Jacky Vedrenne, Maud Pierre, Mélissa Eon, Gwilherm Jan, Soizic Morin**

Analysis of seasonal variability of the functional diversity and dynamic of trophic activity-linked traits of micromeiofauna in a freshwater biofilm

09:45 - 10:00 (ID 6014) **Marie Zhai, Dana Klímová Hřívová, David Výravský**
Is distribution of microcrustaceans (Harpacticoida, Ostracoda) in spring habitats temperature dependent? A comparison from regional and local scale

10:00 - 10:15 (ID 5978) **Tom Moens, Xiuqin Wu**
Natural stable isotope ratios and fatty acid profiles of estuarine tidal flat nematodes reveal very limited niche overlap among co-occurring species and a high prominence of omnivory

10:15 - 10:45 Coffee Break

Chair: Keith Walters

10:45 - 11:00 (ID 6018) **Paul J. Somerfield, Steve Widdicombe**
The influence of bioturbatory macrofaunal species diversity on nematode communities

- 11:00 - 11:15 **(ID 5841) Luuk van der Heijden, R. Asmus, M. Graeve, J. Rzeznik-Orignac, N. Niquil, M. Haraldsson, B. Saint-Béat, S. Pacella, D. Fichet, Q. Bernier, G. Guillou, P. Kadel, H. Asmus, B. Lebreton**
Importance of the microphytobenthos-meiofauna pathway in soft-bottom intertidal food webs highlighted by trophic markers and food web modelling
- 11:15 - 11:30 **(ID 5947) Xiaoshou Liu, Chunzi Gao**
Seasonal distribution of marine nematodes in a temperate semi-enclosed bay, China
- 11:30 - 11:45 **(ID 5965) Fabiane Gallucci, Gustavo Fonseca, Marco Brustolin**
Hydrodynamic exposure decreases the role of environmental filtering over benthic coastal metacommunities
- 11:45 - 12:00 **(ID 5993) Alexei Tchesunov, Vadim Mokievsky, Nguyen Dinh Tu, Nguyen Vu Thanh**
Seasonality in nematodes life cycles and community's structure in mangroves (Red River, North Vietnam)
- 12:00 - 12:15 **(ID 5894) Michaela Schratzberger, Martijn Holteman, Dick van Oevelen, Johannes Helder**
A worm's world: Ecological flexibility pays off for free-living nematodes in aquatic sediments and terrestrial soil
- 12:15 - 12:30 **(ID 6028) Rodgee Mae Guden, Nele De Meester, Sofie Derycke, Tom Moens**
Differential effects of resource diversity on taxis to food, population development, and interspecific interactions of cryptic marine nematode species
- 12:30 - 12:45 **(ID 6043) Giovanni dos Santos, Leticia Pontes, Alexandra Silva, Ian Gorges, Quintin Bergman, Yirina Vazquez, Mariana Fuentes, Sofia Zarate, Jeroen Ingels**
Meiofauna life on loggerhead and hawksbill sea turtles

12:45 - 14:15 Lunch

THEME: Advances in taxonomy, phylogeny and biogeography

14:15 - 15:00 **Paulo Fontoura** (Keynote)
Biodiversity of marine tardigrades: from intertidal to abyssal depths

Chair: Vadim Mokievsky

15:00 - 15:15 **(ID 5791) Martin V. Sørensen, Stephen C. Landers, Melissa Rohal, David Thistle**
Deep-sea Kinorhyncha from the US West Coast

15:15 - 15:30 **(ID 5940) André Garraffoni, Martin Sørensen, Katrine Worsaae, Alejandro Martínez, Maikon Di Domenico, Lilian Sales, Jessie Santos, Anete Lourenço**
Patterns of endemism in marine interstitial microinvertebrates of coastal and shelf areas of the world

15:30 - 16:00 Coffee Break

Chair: Wonchel Lee

16:00 - 16:15 **(ID 5957) Maria Fedyaeva, Alexei Tchesunov**
So different intestine of free-living nematodes

16:15 - 16:30 **(ID 5979) Ana Carolina Vilas-Boas, Gustavo Fonseca**
A supertree of Nematoda: implications for the systematics of marine taxa

16:30 - 16:45 **(ID 5982) Maria Herranz, Katrine Worsaae, Martin V. Sørensen**
Are all Kinorhynchs segmented? Evidences from CLSM and 3D reconstruction

16:45 - 17:00 **(ID 6010) Sahar Khodami, Nancy F. Mercado-Salas, Pedro Martinez Arbizu**
Gradual morphological adaptation to deep-sea and pelagic habitats in Aegisthidae Giesbrecht, 1893 (Copepoda: Harpacticoida) inferred from genus level molecular phylogeny

- 17:00 - 17:15 (ID 6022) **Andreas Schmidt-Rhaesa**
New records of Antarctic meiobentic priapulid larvae
- 17:15 - 17:30 (ID 6025) **Nancy F. Mercado-Salas, Sahar Khodami, Alejandro Martínez, Pedro Martínez Arbizu**
Diversity and phylogeny of anchialine cave copepods
- 17:30 - 17:45 (ID 6027) **Tania Nara Bezerra, Ellen Pape, Freija Hauquier, Lara Macheriotou, Ann Vanreusel**
Distribution of the genus *Halalaimus* in areas of polymetallic nodules unveiling potential connectivity between different study areas
- 17:45 - 18:00 (ID 6041) **Alexander Kieneke**
Preliminary insights into the gastrotrich community of sublittoral sediments of the Azores Archipelago (Portugal)

18:15 - 20:30 Poster Presentation Session

Wednesday, July 10th

Scientific Program

09:00 - 13:00 Alentejo Excursion: Visit to Monsaraz village (cultural heritage) and wine tasting

16:00 - 17:15 Thematic Session: 50th anniversary of the IMCO Conference
Prof. Dr. Ann Vanreusel (Ghent University)
Prof. (em.) Dr. Olav Giere
“Quo Vadis, Meiobenthology? Reflections, Perspectives and Conclusions”

THEME: Meiofauna in a changing world: meiofauna response to natural and anthropogenic pressures

08:45 - 09:30 **Federica Semprucci** (Keynote)
Quantifying the relative impacts of human activities on the coastal systems using free-living nematodes

Chair: Giovanni dos Santos

09:30 - 09:45 **(ID 6008) Luana C. Monteiro, Walter Traunspurger, Tom Moens**
Effects of oil water-soluble fractions (WSFs) on marine and freshwater nematode assemblages: a microcosm approach

09:45 - 10:00 **(ID 6019) Arne Haegerbaeumer, Régis Vivien, Benoît J.D. Ferrari, Walter Traunspurger**
Biomonitoring of freshwater sediments – A comparative assessment using meiobenthic communities and species-based indices

10:00 - 10:15 **(ID 5862) Hendrik Fueser, Marie-Theres Mueller, Walter Traunspurger**
Species-specific ingestion of microplastics of a free-living nematode community

10:15 - 10:45 Coffee Break

Chair: Daniel Leduc

10:45 - 11:00 **(ID 5783) Annalisa Franzo, Paola Del Negro**
Functional diversity of free-living nematodes in river lagoons: can Biological Traits Analysis (BTA) replace traditional taxonomic-based approaches?

11:00 - 11:15 **(ID 5812) Melissa Rohal-Lupher, Paul Montagna**
Meiofauna in an increasingly stressed Gulf of Mexico: Current state and recovery

11:15 - 11:30 **(ID 5798) Hong Zhou, Qing Yu, Xiaoshou Liu, Er Hua, Kai Zhang, Xue Mi, Zhinan Zhang**
Detection of global change with meiofauna and its benthic environment in a shelf sea cold water mass ecosystem

- 11:30 - 11:45 **(ID 6058) Ellen Pape, Tania Nara Bezerra, Marius Buydens, Sacha De Clercq, Ann Vanreusel**
Meio - and nematofauna living inside polymetallic nodules from the CCFZ
- 11:45 - 12:00 **(ID 6017) Ann Vanreusel, Freija Hauquier, Lara Macheriotou, Tania N Bezerra, Ellen Papeh, Lisa Mevenkamp**
Meiofauna research to understand the future impact of deep-sea mining in the Clarion-Clipperton Zone
- 12:00 - 12:15 **(ID 5816) Er Hua, Yanmei Zhu, Xiaoshou Liu**
The use of nematode assemblages in assessing environmental quality in a semi-enclosed bay
- 12:15 - 12:30 **(ID 5928) Hanan Mitwally, Amira Hamdan**
One year natural variability study of meiofauna assemblages and their microbial food among sandy beaches, Alexandria, Egypt
- 12:30 - 12:45 **(ID 6047) Anna-Maria Vafeiadou, Tom Moens**
Effects of temperature range changes and interspecific competition to population development and behaviour of marine nematodes

12:45 - 14:15 Lunch

Chair: Paul Montagna

- 14:15 - 14:30 **(ID 5999) Marcos Rubal, Paulo Fontoura, Puri Veiga**
Effects of sediment organic enrichment on a high diversity tardigrade assemblage in the Ría de Muros (NW Spain)
- 14:30- 14:45 **(ID 5794) John Fleege, David Johnson, Irving Mendelssohn, Donald Deis, Sean Graham, Scott Zengel**
What promotes the long-term recovery of meiofauna after oil spills?
- 14:45 - 15:00 **(ID 6049) Jens Boyen, Patrick Fink, Christoph Mensens, Siel Wellens, Pascal Hablützel, Marleen De Troch**
Unraveling fatty acid bioconversion in harpacticoid copepods facing a changing environment

15:00 - 15:15 **(ID 5852) Aurélie Boisnoir, Pierre-Yves Pascal, Anne Sophie Pavaux, Nikolaos V. Shizas, Sophie Marro, Thierry Blasco, Rodolphe Lemee**

Ingestion of potentially toxic benthic dinoflagellates by harpacticoid copepods

15:15 - 15:30 **(ID 6060) Douglas Johnson, Julian P.S. Smith III**

Effects of beach nourishment: does increased microhabitat diversity drive increased species richness?

15:30 - 16:00 Coffee Break & Group photo

Chair: Sebastian Hoss

16:00 - 16:15 **(ID 5851) Pierre-Yves Pascal, Pierrick Bocher, Christel Lefrancois, Hien T. Nguyen, Johan Chevalier, Christine Dupuy**

Meiofauna versus macrofauna as food resource in a tropical intertidal mudflat

16:15 - 16:30 **(ID 5967) Mariana Aliceda Ferraz, Rodrigo Brasil Choueri, Ítalo Braga Castro, Fabiane Gallucci**

Influence of sediment organic carbon on toxicity depends on organism's ecology

16:30 - 16:45 **(ID 6463) Kasia Sroczyńska, Teresa Rosmaninho, Paula Chainho, Helena Adão**

Individual and community level responses of benthic nematodes to the environmental estuarine gradient (Sado estuary, SW coast, Portugal)

16:45 - 17:00 **(ID 5951) Somin Lee, Wonchoel Lee**

Diversity of recent agglutinated Foraminifera in Korean waters: from literature survey

17:00 - 18:00 Networking Discussions with Researchers

17:30- 18:30 IAM Executive Committee Meeting

19:30 - 22:30 Gala Dinner

THEME: Meiofauna and Science communication to Society

08:45 - 09:30 **Michaela Schratzberger** (Keynote)
Invisible allies: what can meiofauna tell us about a changing world?

Chair: Ellen Pape

09:30 - 09:45 **(ID 6032) Katerina Sevastou, Nikolaos Lampadariou**
Meiofauna as a tool within the framework of European Directives: setting the basis for its use in Greece

09:45 - 10:00 **(ID 5788) Paul A. Montagna**
Is meiofauna better than macrofauna for environmental assessment?

10:00 - 10:15 **(ID 5901) Katja Uhlenkott, Annemiek Vink, Pedro Martínez Arbizu**
Predicting deep-sea meiofauna abundance on large geographic scale in the Clarion Clipperton Fracture Zone (CCZ)

10:15 - 10:45 Coffee Break

Chair: Matthew Lee

10:45 - 11:00 **(ID 5930) Daniela Zeppilli, Laure Bellec, Marie-Anne Cambon-Bonavita, PIONEER team**
Nematode-Prokaryote interactions in marine extreme environments

11:00 - 11:15 **(ID 5964) Francesca Leasi, Eric M Laflamme, Joseph L Sevigny, W Kelley Thomas**
Integrating biodiversity surveys of meiofauna and microbiome for ecosystem biomonitoring

11:15 - 11:30 **(ID 6030) Xiuqin Wu, Nele De Meester, Frederik Leliaert, Tom Moens**
Characterization of marine nematode associated microbiomes by high-throughput sequencing

- 11:30- 11:45 **(ID 5844) Fanghong Mu, Yantao Sun, Yu Zang, Yanan Li**
Divergent responses of two intertidal Meiofauna communities to CO₂-induced seawater acidification
- 11:45 - 12:00 **(ID 5952) Benze Shi, Sichao Pu, Kuidong Xu**
Community structure and variation of Meiofauna under environmental change and human activities in Nanji Islands Marine Nature Reserve in the East China Sea
- 12:00 - 12:15 **(ID 5792) Erivaldo Baia, Marcelo Rollnic, Virag Venekey**
Influence of rainfall and salinity intrusion on the meiofauna and nematodes in an Amazonian mesotidal estuarine beach
- 12:15 - 12:30 **(ID 6046) Mónica Alfaro, Alexandra M. Galindo-Estronza, Paulo H.C. Corgosinho, Nikolaos V. Schizas**
Taxonomic structure of the Meiofauna from Caribbean Mesophotic Reefs
- 12:30 - 14:15 Lunch
- 14:15 - 15:30 General Assembly Meeting

THEME: Advances in taxonomy, phylogeny and biogeography

- 5823** **Lesya Garlitska, Elena Chertoprud, Andrey Azovsky.** World-wide distribution of marine benthic harpacticoids: role of geographical and environmental factors
- 5843** **Daniel Leduc, Zeng Qi Zhao, Benze Shi.** Updating the high-level classification of marine nematodes
- 5845** **Fanghong Mu, Rony Huys.** New *Helmutkunzia* species (Copepoda, Harpacticoida, Miraciidae) from intertidal sandy beach of Xiamen, China
- 5933** **Supawadee Chullasorn, Pawana Kangtia, Sung Joon Song, Jong Seong Kim.** Two new species of the genus *Tigriopus* Norman, 1869 (Copepoda: Harpacticoida: Harpacticidae) from Chonburi province, Thailand
- 5938** **Jisu Yeom, Melissa Rohal, Paul A. Montagna, Wonchoel Lee.** New *Zosime* species (Copepoda: Harpacticoida: Zosimeidae) from the South western Gulf of Mexico
- 5941** **Philipp Pröts, Florian Scharhauser, Gabriela Dangl, Jörg Ott.** The pharynx in Stilbonematinae (Nematoda, Desmodoridae): Adaption to a symbiotic life-style?
- 5946** **Jisu Yeom, Wonchoel Lee.** Species diversity of Harpacticoida in the Palau, with description of the new species in the genus *Rhyncholagena* Lang, 1944 (Copepoda: Harpacticoida: Miraciidae)
- 5948** **Raehyuk Jeong, Alexei V. Tchesunov, Wonchoel Lee.** Redescription of five species belonging to the family Thoracostomopsidae (Nematoda: Enoplida) from Jeju Island, South Korea
- 5950** **Nayeon Park, Wonchoel Lee.** A study on the phylogeny of Siphonophorae (Cnidaria: Hydrozoa) using multiple genomic markers
- 5954** **Jimin Lee, Jong Guk Kim.** Descriptions of two deep-water copepods of the genus *Leptotachidia* Becker (Harpacticoida, Pseudotachidiidae) from the north-western Pacific

- 5956** **Eunha Choi, Ivana Karanovic, Wonchoel Lee**. Three new records of halocyprid ostracods from Korea with molecular phylogeny of Myodocopa inferred from 18S rRNA
- 5958** **Maria Fedyaeva, Alexei Tchesunov**. Alimentary tract structure of *Halichoanolaimus robustus* (Chromadorida, Selachinematidae)
- 5972** **Mario Ayora, D. Carreira, Celia Besteiro**. Comparison of nematode populations between the inner and outer sides of Ría de Foz, Galicia (NW Iberian Peninsula)
- 5973** **Celia Besteiro, Candás M.** The use of micro-CT in the study of the organization of Foraminifera shell: *Lobatula lobatula* (Walker & Jacob, 1798)
- 5974** **Natalie Semanovschi, Eraldo Junior, Ana Villas-Boas, Guilherme Muricy, Orane Alves**. Nematode composition in two tropical sandy beaches of Salvador (Bahia, Brazil)
- 5975** **Gabriel Cidreira, Francisco Kelmo, Orane Alves**. Meiofauna community structure of a tropical sandy beach affected by sediment erosion and deposition, with emphasis on Nematode community
- 5976** **Raissa Pereira, Facelúcia Souza, Orane Alves**. Composition of the meiofauna and nematofauna from a tidal cycle in Itapuã beach - Salvador - Bahia - Brazil
- 5984** **Maria Herranz, Niels Van Steenkiste, Evgeniya Yangel, Jared A. Grummer, Hiroshi Yamasaki, Hayato Tanaka, Motohiro Shimanaga, Brian S. Leander**. The disjunct distribution of *Echinoderes ohtsukai* (Kinorhyncha) explained by human-mediated dispersal across the Pacific Ocean
- 5985** **Diego Cepeda, Sánchez, N., Pardos, F.** There are still dragons out there: new insights into the kinorhynch biodiversity of the Caribbean
- 5994** **Alexei Tchesunov**. Deep-sea desmoscolecoid nematodes of the Angola Basin in SE Atlantic Ocean
- 5995** **Alexei Tchesunov, Jung-Ho Hong, Raehyuk Jeong, Vadim Mokievsky, Wonchoel Lee**. Tardigrades of intertidal sandy wats of Jeju Island, South Korea
- 5996** **Vadim Mokievsky, Tania Nara Bezerra, Wilfrida Decraemer, Ursula Eisendle, Mike Hodda, Oleksandr Holovachov, Daniel Leduc, Dmitry Miljutin, Reyes Peña Santiago, Jyotsna Sharma, Nicole Smol, Alexei Tchesunov, Ann Vanreusel, Virág Venekey, Zeng Zhao**. Morphological species descriptions of free-living nematodes: measurements, characters and their presentation in taxonomic papers

- 5998** **Beatriz Cunha, Gustavo Fonseca, Cecilia Amaral**. The missing piece in the puzzle: using a collaborative integrative taxonomy to disentangle the diversity of Cyatholaimidae (Nematoda)
- 6002** **Cheon Young Chang, Jong Hak Shin, Jimin Lee**. Two new species of the genus *Agauopsis* (Acari: Halacaridae) from Korea
- 6005** **Jaehyun Kim, Jinwook Back, Wonchoel Lee**. A new species of the genus *Paramesochra* Scott, T., 1892 from marine interstitial water in Goseong, Korea.
- 6011** **Sahar Khodami, Nancy F. Mercado-Salas, Danny Tang, Pedro Martinez Arbizu**. An updated phylogeny and classification of the Cyclopoida (Copepoda)
- 6040** **Alexander Kieneke**. A new, chimera-like species of Gastrotricha discovered in deep sublittoral sand off Flores Island (Azores) and affiliated with integrative taxonomy
- 6059** **Julian P.S. Smith III, Mikhail Anfinson, Marco Curini-Galletti** Internal Systematics of Monocelididae: Three New Species Help Resolve Outstanding Taxonomic Issues (Platyhelminthes: Proseriata)
- 6067** **Małgorzata Kolicka**. Chaetonotidae (Chaetonotida, Gastrotricha) – ‘Hollow Curve Distribution’ phenomenon or systematics artefact?

THEME: Meiofauna biodiversity patterns and ecosystem interactions (including Freshwater, Estuarine Coastal and Ocean, Deep sea and Frontiers ecosystems)

- 5795** **John Fleeger**. A meiofaunal chicken and egg question; Do temporary meiofauna influence the number of macroinfauna or do macroinfauna influence the number of temporary meiofauna?
- 5824** **Elena Chertoprud, Lesya Garlitska, Daria Kondar, Andrey Azovsky**. Harpacticoida (Crustacea, Copepoda) of the East Siberian and Chukchi Seas in comparison with the adjacent Arctic seas
- 5842** **Amanda Heidt**. Effects of beach structure and sediment characterization on meiofaunal community diversity along the California coast
- 5854** **Pierre-Yves Pascal, Elie Poulin, Sébastien Motreuil, Gilles Marty, Thomas Saucedo**. Role of meiofauna in the diet of the heart urchin *Abatus cordatus* in the Kerguelen Islands

- 5861** **Sebastian Höss, Birgit Gansfort, Walter Traunspurger.** What shapes nematode community structure in unpolluted river sediments?
- 5892** **Jian-Xiang Liao, Chih-Lin Wei.** Diversity and functional traits of deep-sea nematodes in a high energy canyon off SW Taiwan
- 5934** **Laurence Guidi-Guilvard, Serge Dallot, Jean-Olivier Irisson.** Small-scale horizontal distribution patterns of nematodes in deep NW Mediterranean surface sediments (DYFAMED-BENTHOS 2003)
- 5960** **Frederic Bonk, Achim Wehrmann, Thomas Glatzel.** Impact of subterranean estuaries on the diversity of copepods in the intertidal of the central Wadden Sea
- 5961** **Matthew R. Lee, Camilo Rodríguez, Angela Baldrich, Patricio Díaz.** The influence of pH and Redox on the meiofauna assemblages in the fjords and channels of northern Chilean Patagonia
- 5969** **Nuria Sánchez, Lenaick Menot, Lucie Pastor, Jozée Sarrazin, Daniela Zeppilli.** Ecological connectivity and functional links between deep sea hydrothermal active and inactive sites in view of potential sulphide mining
- 5988** **Francesca Leasi, Autumn Miller, Willem De Smet.** Effect of salinity and habitat on rotifer communities from the United States and description of two new species
- 5991** **Vadim Mokievsky, Alexey Udalov.** Meiobenthos and nematode fauna of Hainan mangroves (China)
- 5997** **Marcos Rubal, Puri Veiga.** *Echinoderes dujardini* Claparède, 1863 a frequent kinorhynch of phytal meiofauna along Portugal. Distribution and temporal variability
- 6000** **Motohiro Shimanaga, Reina Senokuchi, Hidetaka Nomaki, Daisuke Uyeno, Hiromi Kayama Watanabe, Tomo Kitahashi, Nanako O Ogawa.** Chemoautotrophic food availability influences benthic copepod composition at deep hydrothermal vent sites on NW Pacific volcanic calderas
- 6001** **Seunghan Lee, Jung-Ho Hong, Kichoon Kim, Kanghyun Lee.** Correlation analysis of meiofaunal biomass and macrofauna community in the water around Korean Peninsula
- 6007** **Sujing Fu, Yiyong Rao, Xinwei Chen, Deyuan Yang, Lizhe Cai.** Meiofaunal assemblages in horseshoe crab habitat in an intertidal zone, China
- 6020** **Paul J. Somerfield, Christine Pascoe.** Collaborative opportunities with the Plymouth Marine Laboratory

- 6033** **Prasath Dharmaraj, Balasubramaniam Janarthanan, Jayaraj Kedaperambil Arjun.** Relationship between the free-living marine nematodes and microphytobenthos (benthic diatom) from the tropical mangrove ecosystem, Andaman & Nicobar Islands, India
- 6035** **Anna Di Cosmo, Daniela Zeppilli, Federica Rebecchi, Elisa Baldrighi, Alessandro Pisaniello, Gianluca Polese, Jacques Grall.** Maërl beds meiofauna from the Bay of Brest (Brittany), a quantitative and qualitative first insight
- 6063** **Bijoy Nandan, Krishnapriya P.P., Jima M., Aswathy N.K., Minu M., Akhilesh Vijay, Jayachandran P.R, Harikrishnan M, K.P. Krishnan.** Biocoenosis of Meiofauna in a high-latitude glacial Arctic fjord (Kongsfjorden, Spitsbergen) with attributes on selected fauna
- 6065** **Mateusz Zmudzinski.** Mite(y) journey on the back of caddisfly (Trichoptera) for ca. 45 000 000 years
- 6081** **Daria Portnova, Marya Fedyaeva, Lesya Garlitska, Daria Kondar.** Nematodes of the three Arctic Seas
- 6453** **Adriane Wandeness, Isa Moura, Paulo Santos, André Esteves.** Biodiversity of Copepoda Harpacticoida in a Submarine Canyon and its Adjacent Slope Area in the Southwest Atlantic (Campos Basin, Brazil)

THEME: Meiofauna in a changing world: meiofauna response to natural and anthropogenic pressures.

- 5819** **Zofia Stachowska, Andrew J. Gooday, Teresa Radziejewska, Brygida Wawrzyniak-Wydrowska, Pedro Martinez Arbizu.** Foraminiferal assemblages at a former deep-sea experimental disturbance site in the Clarion-Clipperton Zone (subequatorial NE Pacific)
- 5853** **Océanne-Amaya Cipolloni, Pierre-Yves Pascal, Adeline Arini, Magalie Baudrimont Agnès Feurtet-Mazel, Julien Gigault.** Nanoplastic contamination of mangrove meiofauna communities
- 5863** **Marie-Theres Mueller, Hendrik Fueser, Sebastian Höss, Walter Traunspurger.** Do microplastics affect population growth rates of different nematode species?
- 5931** **Claire Michelet, Daniela Zeppilli, Cédric Hubas, Elisa Baldrighi, Emma Michaud.** Mangrove meiofauna as bio-indicator for the monitoring of coastal and transitional waters in French Guiana

- 5935** **Hyong-Gi Kim, Sung Joon Song, Bong-Oh Kwon, Jong Seong Khim.** Spatiotemporal variations of meiofauna assemblages in relation with environmental factors in two contrasting nearshore habitats
- 5939** **Kuansiri Seelpinyo, Supawadee Chullasorn.** The impact of temperatures, salinity levels and Chitosan concentrations on the survival and production rates of Harpacticoid Copepod, *Tigriopus* sp.
- 5945** **Katarzyna Grzelak, Marta Gluchowska, Klaudia Gregorczyk, Nathalie Morata, Monika Kędra, Magdalena Błażewicz.** The impact of sea ice regime on nematode communities: structural and morphometric approach
- 5959** **Marcos Rubal, Juan D. Delgado-García, Puri Veiga, Inés Martínez-Pita, Francisco J. García-García.** Breakwaters as beach habitat modifiers: a case study of meiofauna in southwestern Spain
- 5970** **Nuria Sánchez, Fernando Pardos, Pedro Martínez-Arbizu.** Deep metal: deep-sea Kinorhyncha from the polymetallic nodule fields of the CCFZ
- 5986** **Mariana Cavalcanti, Paula Chaddad, Swane Reis, Mário Filho, Érika Santos, Betânia Guilherme.** Meiofauna communities from an eroded tropical sandy beach (Pernambuco, Brazil)
- 5987** **Hanan Mitwally.** Biomonitoring of Egyptian Mediterranean Sandy beaches by using free living nematode assemblages and functional biological traits, Alexandria Egypt
- 5990** **Thais Navajas Corbisier, Maria Clara Colla Argeiro, Luciana Erika Yaginuma.** Nematoda genera assemblage's along continental shelf in Santos Basin, Southeast Brazil: State of the art for a monitoring program
- 6013** **Thamasak Yeemin, Makamas Sutthacheep, Wichin Suebpala, Siriluck Rongprakhon, Parichat Niyomthai, Orathep Muresare, Supakarn Paodung.** Composition and abundance of meiofauna in shellfish protected area compared to non-protected area on a sandy beach in the Andaman Sea
- 6021** **Christine Pascoe.** Effects of changing ice cover on Arctic meiofaunal assemblages
- 6026** **Makamas Sutthacheep, Thamasak Yeemin, Sittiporn Pongsakun, Wanlaya Klinthong, Charernmee Chamchoy, Laongdow Jungrak, Wiphawan Aunkhongthong.** Abundance of foraminifera on coral communities in Mu Ko Chumpon, the Gulf of Thailand

- 6092** **William Johnson-Silva, Renata Cruz, Érika Santos, Edivaldo Júnior, Clélia Rocha, Betânia Guilherme.** Is there a relationship between diversity and density in nematode community after a beach nourishment process?
- 6452** **André Esteves, Tarciane Souza, Visnu Sarmento, Paulo Santos.** Effects of acidification on the functional structure of free-living marine nematodes from coral reefs: an experimental approach

THEME: Methodologic advances in meiofaunal studies: new tools and analytical and experimental approaches

- 5896** **Henrike Brüchner-Hüttemann, Janina Schenk, Christoph Ptatscheck, Sebastian Höss, Marvin Brinke, Walter Traunspurger.** Do nematodes tell the truth? On the robustness of the NemaSPEAR[%]-index in the quality assessment of fine sediments
- 5932** **Melissa Rohal, Robert Gutierrez.** Meiofauna Outreach: 3D printed models
- 5937** **Hidetaka Nomaki, Masashi Tsuchiya, Akihiro Tame, Takuya Matsuzaki, Masafumi Murayama.** Variations in 3-D cytoplasmic structures of foraminifera (protistan meiofauna): microfocus X-ray CT and TEM observations
- 5963** **Jannik Schnier, Alexander Kieneke.** Ultrastructure and possible role of the epidermal gland system of *Tetranchyroderma suecicum* Boaden, 1960 (Gastrotricha: Macrodasysida)
- 5983** **Vittorio Boscaro, Maria Herranz, Niels Van Steenkiste, Nicholas Irwin, Varsha Mathur, Noriko Okamoto, Brian Leander, Patrick Keeling.** Microbiome profiling of small marine invertebrates
- 6029** **Séréna Albert, Per Hedberg, Nisha H. Motwani, Sara Sjöling, Monika Winder, Francisco Nascimento.** Structural and functional response of meio- and microbenthic fauna under different organic matter settling scenarios - case study from the Baltic Sea

- 6037** **Raíssa Corrêa, Leticia Soares, Tatiana Maria.** Climate change pressures on sandy beach nematodes: preliminary results from an ex-situ experiment
- 6300** **Rock Pulak, Bruce Holcombe, Mariya Lomakina, Tom Mullins, Julia Thompson.** COPAS VISION flow cytometer analyzes and captures brightfield images of meiofauna and dispenses selected subsets

Conference Venue

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