

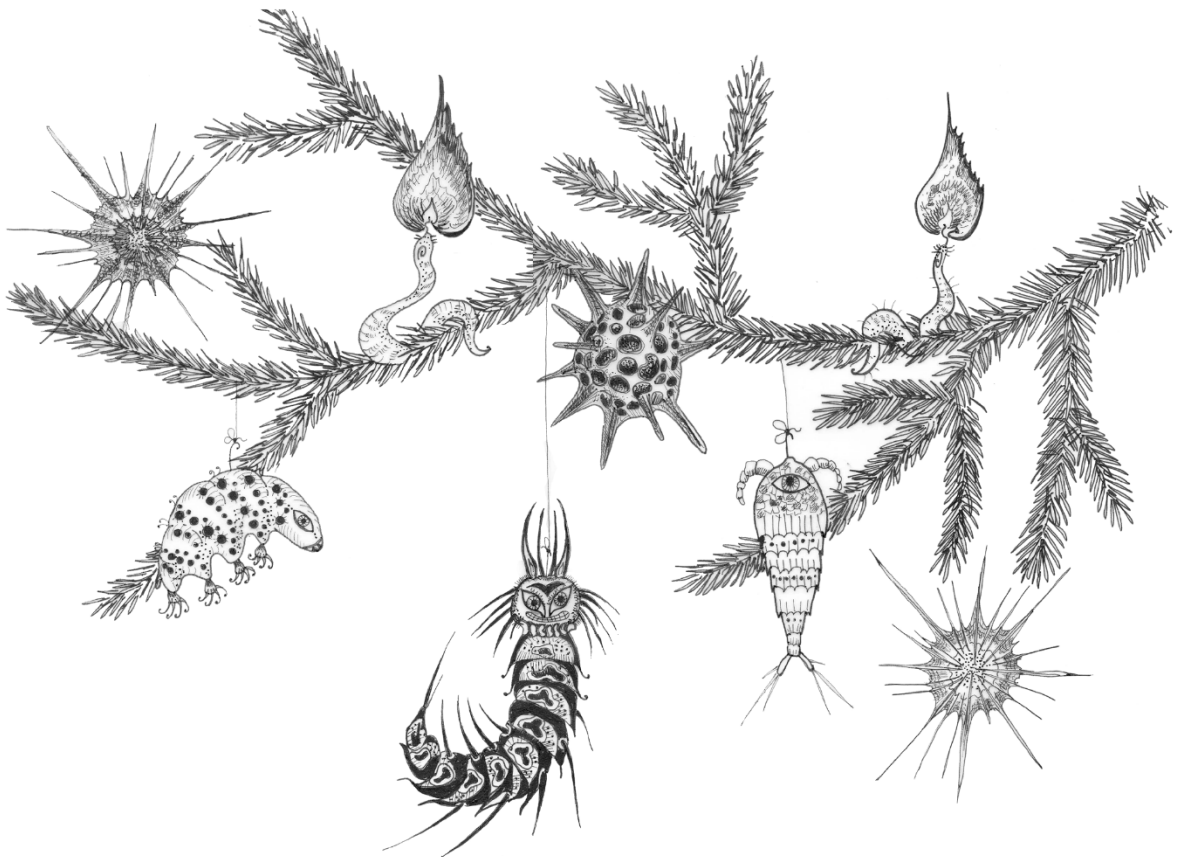
## PSAMMONALIA

The Newsletter of the  
**International Association of Meiobenthologists**

Number 168, December 2017



Composed and Printed at  
Lab. of Coastal Benthic Ecology  
P.P. Shirshov Institute of Oceanology RAS



**DONT FORGET TO RENEW YOUR MEMBERSHIP IN IAM!**  
THE APPLICATION CAN BE FOUND AT:

<http://www.meiofauna.org/appform.html>

This newsletter is mailed electronically. Paper copies will be sent only upon request

## Executive Committee

### Vadim Mokievsky, Chairperson

P.P. Shirshov Institute of Oceanology, Russian Academy of Sciences, 36 Nakhimovskiy Prospect, 117218 Moscow, Russia.  
vadim@ocean.ru

### Wonchoel Lee, Past Chairperson

Lab Of Biodiversity, (#505), Department of Life Science, College of Natural Sciences, Hanyang University, Seoul, South Korea.  
wlee@hanyang.ac.kr

### Ann Vanreusel, Treasurer

Lab Morphologie, Universiteit Gent, Ladengancjstraat 35, B-9000 Gent, Belgium.  
ann.vanreusel@UGent.be

### Jyotsna Sharma, Assistant Treasurer

Department of Biology, University of Texas at San Antonio, San Antonio, TX 78249-0661, USA. Jyotsna.Sharma@utsa.edu

### Hanan Mitwally (term expires 2019)

Faculty of Science, Oceanography, University of Alexandria, Moharram Bay, 21151, Egypt .  
h\_mitwally@yahoo.com

### Gustavo Fonseca (term expires 2019)

Universidade Federal de São Paulo, Instituto do Mar, Av. AlmZ Saldanha da Gama 89, 11030-400 Santos, Brazil. gfonseca@unifesp.br

### Daniel Leduc (term expires 2022)

National Institute of Water and Atmospheric Research, Private Bag 14-901, Wellington, New Zealand. Daniel.Leduc@niwa.co.nz

### Nabil Majdi (term expires 2022)

Bielefeld University, Animal Ecology, Konsequenz 45, 33615, Bielefeld, Germany.  
nabil.majdi@uni-bielefeld.de

## Ex-Officio Executive Committee (Past Chairpersons)

- 1966-67 Robert Higgins - Founding Editor
- 1968-69 W. Duane Hope
- 1970-71 John Gray
- 1972-73 Wilfried Westheide
- 1974-75 Bruce Coull
- 1976-77 Jeanne Renaud-Mornant
- 1978-79 William Hummon
- 1980-81 Robert Higgins
- 1982-83 Carlo Heip
- 1984-86 Olav Giere

- 1987-89 John Fleeger
- 1990-92 Richard Warwick
- 1993-95 Paul Montagna
- 1996-98 Magda Vincx
- 1999-2001 Yoshihisa Shirayama
- 2002-2004 John Lamshead
- 2005-2007 Keith Walters
- 2008-2010 Paulo Santos
- 2011-2013 Nikolaos Lampadariou
- 2014-2016 Wochoel Lee

## Board of Correspondents

### Er Hua

College of Marine Life Science, Ocean University of China, 5 Yushan Road, Qingdao 266003, P.R.C. huaer@ouc.edu.cn

### Marten Sørensen

Natural History Museum, Denmark.  
mvsorensen@snm.ku.dk

### Samuel Gomez

Universidad Nacional Autónoma de México. Joel Montes Camarena s/n, 82040 Mazatlán, Sinaloa, México.  
samuelgomez@ola.icmyl.unam.mx

### Jeroen Ingels

Plymouth Marine Laboratory, Prospect Place, The Hoe, Plymouth PL1 3DH, UK.  
jein@pml.ac.uk

### Cheng Chen

University of Malaysia Sabah, Malaysia.  
chengann@ums.edu.my

Editor in Chief:  
*Vadim Mokievsky*  
Cover page:  
*Elena Chertoprood, Lesia Garlitska*

## Contents

<b>Editorial .....</b>	<b>3</b>
<b>Upcoming conferences .....</b>	<b>4</b>
<i>17<sup>th</sup> International Conference on Meiofauna</i>	
<i>14th International Symposium on Tardigrada</i>	
<i>International Crustacean Congress</i>	
<i>European Society of Nematologists</i>	
<i>Conference 2018</i>	
<i>Ocean Sciences Meeting in Portland, Oregon</i>	
<b>After the conferences .....</b>	<b>5</b>
<i>Fourth International Congress on Invertebrate Morphology</i>	
<i>Twelfth International Symposium of the Russian Society of Nematologists</i>	
<i>Conference "Crustacea: diversity, ecology and evolution"</i>	
<b>Expeditions .....</b>	<b>8</b>
<i>Studying the meiofauna of the world's deepest environments</i>	
<b>New members.....</b>	<b>8</b>
<b>Remembering Bill Hummon .....</b>	<b>10</b>
<b>Electronic resources.....</b>	<b>12</b>
<i>Meiobenthic groups within the World Register of Marine Species</i>	
<b>Recent Literature.....</b>	<b>13</b>
<b>Membership Renewal Form.....</b>	<b>18</b>

## Editorial

Dear Colleagues, members of International Association of Meiobenthologists and all who are interested in microscopic creatures,

I'm glad to send you my warmest seasonal greetings and wish you every success in life and science in New Year!

The last year was rich by events and activities in meiobenthic science. Several conferences devoted to various groups of meiofauna held in different places gave us a good opportunity to see each other again and share results of new researches. Many expeditions, coastal, marine and freshwater gathered new data and replenished our collections. Many new papers were printed out since June, electronic resource grew up and new conferences are proposed for the coming months. Some information on each of these topics you can find on following pages.

I'm glad to welcome new members of Association and wish you to enjoy your studies on these nice microscopic animals and also wish you fruitful contacts with your colleagues. I would be glad if IAM and our communication tools will help you on this way.

Concerning IAM routine, we are working on the webpage and mailing list. The number of mistakes was fixed, and I have to express my gratitude to Jeff Baguley and Board Members for significant improvement of list of members. However, some gaps and mistakes are exist there and I still would like to have information about any incorrectness. It appears also, that in some cases messages from "Psammonalia" mailbox may be lost because of spam filters of users. Please, check it.

All previous issues of PLAMMONALIA are available at:

<http://www.meiofauna.org/psammona.html>

I have to thank all of members of Association who help me with preparation of this issue.

Happy New Year!

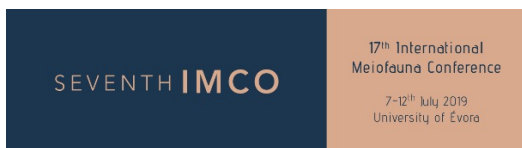
Yours

*Vadim Mokievsky*

## Upcoming conferences

### 17th MEIOFAUNA CONFERENCE SeventhIMCO

7-12th July 2019 (Évora, Portugal)



From the 7<sup>th</sup> till the 12<sup>th</sup> July 2019, the University of Évora, the Marine and Environmental Sciences Centre (MARE) and the International Association of Meiobenthologists (IAM) will organize the 17<sup>th</sup> edition of the Meiofauna Conference (SeventhIMCO) to be held at Évora, Portugal.

The conference aims to discuss and contribute to the advance of the understanding on the current state of meiofauna diversity and its interactions in marine and freshwater systems. It will be a dynamic conference focused on innovative research topics and providing a set of interesting keynote sessions, contributed talks and posters and thematic workshops addressing meiofauna across a wide range of relevant research challenges, namely analytical methods, conservation, ecosystem interaction and services, marine and freshwater ecology, frontiers areas and policies.

At present, we are developing a program of inspirational speakers and will announce more details in the webpage very soon.

Please share this event with your global network using your newsletters, websites and social media.

We hope to see you in Évora!

On behalf of the SeventhIMCO Organizing Committee

*Helena Adão*

e-mail: [hadao@uevora.pt](mailto:hadao@uevora.pt)

University of Évora and MARE- Marine and Environmental Sciences Centre

<http://www.mare-centre.pt/en>

<http://www.evora-portugal.com/index.html>

e-mail: [17imc2019@uevora.pt](mailto:17imc2019@uevora.pt)

### 14<sup>th</sup> International Symposium on Tardigrada 30 July - 03 August, 2018

We are very pleased to welcome you to the 14<sup>th</sup> International Symposium on Tardigrada, which will be held in Copenhagen, Denmark, 30 July - 03 August 2018.

Information about the Symposium is available at the website:

<https://www.tardigrada2018.org>

Please note that the deadline for Early Registration and Abstract submission is 30 March 2018. Late Registration is open until 1 June 2018. Information about registration and abstract preparation etc. can be found at the Symposium website.

We are looking forward to seeing you at the Copenhagen Symposium in 2018!

Please forward this message to anyone who might be interested.

On behalf of the Organising Committee,  
Chair of Tardigrada 2018,

*Nadja Møbjerg*

### International Crustacean Congress May 22-25, 2018

International Crustacean Congress (ICC9) that will take place May 22-25, 2018, in Washington DC, USA. The Congress hosted by the Smithsonian Institution and the Renaissance Hotel. This will be the first time that an ICC has been held within the United States and the first time to be hosted by the Smithsonian Institution. The ICC 9 meeting is also co-hosted by The Crustacean Society and is dedicated to dissemination of all aspects of crustacean biology to local and international audiences.

For registration, early bird deadline is January 15. Abstract deadline is March 1.

For detailed information, please visit the ICC9 website:  
<http://www.birenheide.com/ICC2018/index.php>

**European Society of Nematologists  
Conference 2018  
9-13th September, Ghent, Belgium**

Main topics of the Conference are:

- Systematics (Taxonomy, Morphology, Phylogeny, Barcoding)
- Ecology
- Management
- Biocontrol (including entomoparasitic nematodes)
- Plant-nematode interactions
- Animal parasites
- Model organisms

Deadline abstract submission applicants student bursaries **15/03/2018**.

Early registration **15/05/2018**.

Deadline abstract submission **15/05/2018**

Information available at:

<https://www.esn-online.org/conference>

**Ocean Sciences Meeting in Portland,  
Oregon.**

**Session: Benthic Meiofauna Structure,  
Pattern, and Function in Ocean Basins  
February 13, 2018**

Special session proposed for meiofauna studies. Session will be in Oregon Convention Center - Poster Hall at Tuesday, February 13, 2018 04:00 PM - 06:00 PM

In this topical session, submissions are solicited in the area of benthic meiofauna community structure, their biogeography across ocean basins as well studies investigating specific role of benthic meiofauna in marine ecosystems including biogeochemical cycling. In particular, submissions are welcome in the emerging areas of benthic meiofauna research that incorporates new tools and techniques including next generation sequencing.

Session is organized by Holly M. Bik (University of California, Riverside), Punyasloke Bhadury (Indian Institute of Science Education and Research, Kolkata) and Jeroen Ingels (Florida State University).

Other information and list of papers of the session are here:

<https://agu.confex.com/agu/os18/meetingapp.cgi/Session/28611>

General information about the **Ocean Sciences Meeting** is here:

<https://osm.agu.org/2018/>

Registration Deadline: 10 February

Housing Deadline: 17 January 2018

**After the conference: participants' brief notes**

**Fourth International Congress on  
Invertebrate Morphology**

The large-scale Congress took place at M.V. Lomonosov Moscow State University, Moscow from August 18 to 23, 2017. Among many other thematic sessions in the symposia structure, the special session "Minute metazoans: Little pigeons can carry great messages" was devoted to micrometazoans and partly to tiny meiobenthic organisms fitting in the scope of Psammonalia. Katrine Worsaae and oth. (Denmark) gave a lecture "A meiofauna perspective on nervous system evolution" emphasizing that meiofauna lineages may constitute sister clades to the major groups of Bilateria: Xenacoelomorpha as sister to other bilaterians, Scalidophora – to remaining ecdysozoans, Gnathifera – to remaining spiralian and thus necessity for a comparative approach and reconstruction of ancestry using phylogenetic tools. Three communications concerned free-living nematodes. Vladimir Yushin (Russia) and oth. ("Male gametes and evolution in nematodes ...") particularly accentuated problems of incongruence of sperm morphology to certain nematode lineages and enigmatic phenomenon of sperm dimorphism in some taxa. Myriam Clayer (Belgium) and oth. showed an easy-to-use and low-cost method of self-pressurised rapid freezing; this method tested on free-living nematodes preserves finely all the cell structures. Izabela B. Poprawa and oth. (Poland) reported on oogenesis in a parthenogenetic eutardigrade.

Magdalena Rost-Roszkowska and oth. (Poland) described a variety of functions of midgut epithelium in eutardigrades – not only secretion, absorption, accumulation of reserve material but also defense against external factors. Nataliya Budaeva and Conrad Helm (Norway) reported on enigmatic Charlie Chaplin annelids of the Histriobdellidae living as commensals on lobsters – using a variety of approaches, the authors found histriobdellids close to some taxa within Eunicida. Several presentations were devoted to structural peculiarities of microarthropods: wing apparatus and flight as well as head morphology of tiniest beetles (Alexey Polilov and oth., Margarita Yavorskaya and oth., Russia), brain structure of tiny dipterans (Anastasia Makarova and Alexey Polilov, Russia). Alexandra Petrunina and Gregory Kolbasov (Russia) described anatomy of Tantulocarida, smallest crustaceans ectoparasitizing other microscopic marine host crustaceans; the authors suggest that so-called honeycomb-like structure filling in the anterior part of the male cephalothorax represent actually a male gonad. Yoko Matsumura and oth. (Germany) presented a very fine study on biomechanics of a hyper-elongated structure of a beetle intromittent organ. The presentations demonstrated a high diversity of methods allowing to solve problems concerning functional morphology, physiology, life cycles and phylogenetic relationships of a broad range of micrometazoans.

*Alexei Tchesunov*

**Twelfth International Symposium of the Russian Society of Nematologists  
“Nematodes and other Ecdysozoa under the growing ecological footprint on ecosystem”**

The Symposium has been held on July 30 – August 6, 2017 at N.I. Lobachevsky University in Nizhni Novgorod, a pictorial large city on Volga River, formerly considered as a “third capital of Russia”. The total number of participants was 90 persons, at that twelve participants were from abroad. All the presentations were held either in English with subsequent comments in

Russian or in Russian with explicit comments and remarks in English. Most communications concerned zoo-, phyto- and entomoparasitic as well as terrestrial nematodes but a few lectures and poster presentations dealt with marine free-living nematodes. Thus, Nguyen Dinh Tu and oth. (Hanoi) presented a study on impact of a typhoon on nematode communities in coastal mangrove zone in Vietnam. Maria Fedyeva and Darja Portnova (Moscow) had an oral presentation on distribution of nematode diversity across the shelf of the Arctic Laptev Sea. For me, the most interesting detail in this study turned out to be finding of numerous *Cryonema* sp. juveniles in bottom sediments: *Cryonema* species until recently were known to be only associated with long-term and seasonal Arctic sea ice. Alexei Tchesunov and Vadim Mokievsky (Moscow) gave a lecture on nematode assemblages and tardigrades within bioclastic carbonate sand on summit plateau of the giant isolated seamount Great Meteor in the north-east Atlantic Ocean. Nematode diversity and taxonomic composition generally resembles those of coastal coarse sands but portions of some taxa are increased while other taxa are lowered or absent. Thus, an unusually diversity of the predatory genus *Latronema* (Selachinematidae) was revealed. Eight morphologically distinct new *Latronema* species share some structural features in common (stoma armature reduction) that enables to hypothesize their endemic speciation. Maria Fedyeva presented a wide study of the intestine ultrastructure in a number of marine free-living nematode species in order to test an expectation that the midgut characters might be linked with the feeding type of species. The most variable structure among species proves to be extracellular coating over microvillar brush, a glycocalyx – its thickness and structural complexity may be connected with diet: species ingesting coarse sediment particles (e.g. *Daptonema* spp.) tend to have more thick multilayered glycocalyx than those swallowing fine particles or piercing and sucking protists or multicellular organisms. Among poster presentations, the poster of Nic Smol (Ghent) and oth. “An introductory

guide to NeMys ..." drew the most vivid attention of participants.

*Alexei Tchesunov*

### **Conference "Crustacea: diversity, ecology and evolution" in Moscow and creation of the Russian Crustacean Society**

A conference "Crustacea: diversity, ecology and evolution" was held at A.N. Severtsov Institute of Ecology and Evolution, Moscow, Russia on October 30th to November 2nd of 2017 as the A.N. Severtsov Institute of Ecology and Evolution of Russian Academy of Sciences. More than 100 investigators met in Moscow, and 72 researchers from 16 different towns of Russia and also Norway and Belarus presented 15 plenary lectures, 40 oral presentations and 42 posters grouped into five sections: (1) Taxonomy, zoogeography, faunistics: recent approaches to taxonomic revisions and inventories of the biodiversity; (2) Morphology, anatomy, embryology and physiology; (3) Ecology and behaviour; (4) Palaeolimnology, palaeontology and evolutionary reconstructions; (5) Recent methods of the crustacean investigations: achievements, problems and perspectives. This conference was mainly aimed at an involving junior biologists in crustacean studies. Special prizes were awarded to junior scientists for the best oral communications and the best posters. The Organization Committee also assigned a special prize to two students of a primary and secondary school in the town of Blagoveshchensk (Amur Area) for their poster "Triopsids, living fossils from the water bodies of the Amur Area".

We were happy to explore that investigators from several regional Russian institutes and universities are conducting projects of a high international rank in several directions of carcinological research. But we need to note that many regional Russian scientific organizations, with a good potential for crustacean studies, have problems with quality of their publication, access to recent literature and recent methods of scientific work. And scientists from large cities of Russia have a chance to help them. At the conference, the voluntary Russian

Crustacean Society was proposed, with the aim to create a Russian Crustacean Society associated with the Russian Academy of Sciences. The coordinators of such efforts are A.A. Kotov, I.N. Marin (A.N. Severtsov Institute of Ecology and Evolution, Moscow), N.V. Aladin (Zoological Institute, St.-Petersburg), G.A. Kolbasov, V.N. Ivanenko (M.V. Lomonosov Moscow State University, Moscow), V.A. Spiridonov (P.P. Shirshov Institute of Oceanology, Moscow), V.V. Takhteev (Irkutsk State University, Irkutsk) and I.S. Turbanov (Inland Water Biology Institute, Borok). Our final aim is to create the Russian Crustacean Society with a legal judicial status in Russia, being a non-commercial "Interregional public association without creation of a legal entity" with the following objectives:

- (1) Overcoming a disunity of the carcinologists dealing with different groups by different methods in different Regions of Russia by exchanging of information (i.e. by specially created Web portal [www.crustacea.ru](http://www.crustacea.ru), organization of conferences and workshops;
- (2) Help in the planning and conducting of carcinological investigations, publication of results and introduction of fundamental results of the Society members for practical use;
- (3) Popularization of the crustaceans as objects of any scientific works, attraction of junior scientists to the crustacean problems;
- (4) Informing about possible fund sources for scientific activity in carcinology;
- (5) Promotion of a cooperation with crustacean investigators from other countries. Resolving any questions concerning the formal association with the Russian Academy of Sciences (and administrative formalities concerned such association) is addressed to Dr. A.A. Kotov, a Corresponding Member of the Russian Academy of Sciences.

In May of 2018 a next National Conference on the Crustacea will be organized at the Inland Water Biology Institute, Borok, Yaroslavl Area. This conference will be at the same time a 1st Congress of the Russian Crustacean Society where it will be created as a legal non-commercial public organization,

also its chapter will be adopted and its authority for the time before the next Congress will be elected.

*Alexey Kotov*

## **Expedition**

### **Studying the meiofauna of the world's deepest environments**



University of Southern Denmark's profiler lander being retrieved from the depths of the Kermadec Trench by NIWA's research vessel *Tangaroa*.

A voyage to the Kermadec Trench, the first of a series of expeditions exploring selected trenches of the Pacific Ocean, has recently been completed. This voyage is part of the HADES-ERC project, which will provide the first detailed, combined analysis of benthic diagenesis and microbial/meiofaunal ecology of some of the deepest oceanic trenches on Earth. Voyage leaders were Ronnie Glud from the University of Southern Denmark, and Ashley Rowden from NIWA.

During this voyage, a range of sophisticated autonomous landers as well as traditional sampling methods were used to sample meiofauna down to Scholl Deep, the deepest point of the Kermadec Trench. The team was able to obtain the deepest sediment samples ever retrieved using wire cable-deployed instruments: a boxcorer at 9994 m, and a multicorer at 9690 m. Preliminary results

suggest a considerable degree of heterogeneity in benthic metabolism along the deepest part of the trench axis (>9000 m), as well as clear evidence of turbidites, which likely have an influence on meiofaunal communities. Analyses of metazoan meiofauna from the trench, which will be led by Daniel Leduc at NIWA, will focus on community ecology, molecular sequencing and environmental DNA approaches, as well as food web biomarkers. Analyses of foraminiferans will be conducted by Hiroshi Kitazato (JAMSTEC). The next voyage, due to depart from Chile in March 2018 and led by Frank Wenzhöfer from Max Planck Institute, will explore the Atacama Trench with Daniela Zeppilli from Ifremer leading the sampling and analyses of metazoan meiofauna.

The research is primarily funded by a 5-year European Research Council Advanced Grant (ERC adG 2014 669947), with additional support from various national research programmes (including from NIWA).

*Daniel Leduc*

## **New members**

Prof. Juan I. Cañete

Research interests: benthic meiofaunal polychaetes, meroneustonic meiofauna (*Polygordius*, *Microsetella*)

I'm Chilean marine biologist. My professional title was obtained in the Catholic University of North of Chile ([www.ucn.cl](http://www.ucn.cl)) and my Ms Sc. postgraduate studies was obtained in the University of Concepcion ([www.udec.cl](http://www.udec.cl)). In the first university my thesis was referred to the taxonomy, ecology and biogeography of benthic polychaetes from Easter island and in the second university my thesis was on the larval and early postlarval ecology of the edible squat-lobster *Pleuroncodes monodon* on the continental shelf of Concepcion Bay, central Chile. My interest on marine meiofauna began in 1997 when I participate the International Atacama Trench Expedition



(ATIE) at the team of Norberto Della Croce, Chilean benthologist and oceanographer. In this cruise an important hotspot of deep-sea nematodes biodiversity was discovered (see some papers of Danovaro et al). Since 2010, I began to study the neustonic pelagic communities of the estuarine zone dominated by channels and fjords of the southern Chile. Some important discoveries allow me to map the relationship between salinity and spatial distribution of some meiofaunistic *Polygordius/Microsetella* larvae along Puerto Montt (40°S) to Navarino Island (56°) coast, in this important biogeographic subantarctic province (*sensu* Spalding et al., 2007). I worked and studied in four Chilean universities:

1989-1991: Catholic University of North

1992-1994: University of Concepcion

1994-1998: University of Valparaiso

1999-to present: University of Magallanes (UMAG).

In the UMAG, now I teach on Invertebrate zoology, Vertebrate zoology (Protochordates), Environment Management, Integrated Management of Coastal Zone and Biological Oceanography. In the class I establish the role of marine benthic communities in studies of biodiversity and as environmental tool for monitoring pollution and marine benthic resources.

Through of the financial support of Chilean Agency of Sciences and Technology, this year I can fund the visit of the member of International Association of Meiobenthologists, German meiobenthologist Dr. Andreas Schmidt-Rhaesa to work on meiobenthic communities located along Chilean sandy beach. In this initiative also participate meiobenthologists Matthew Lee and Javier Sellanes. The first is also member of IAM. We expect to build a South American scientific net to study the special features of the Chilean marine meiofauna. The first step of this will be the visit of my student Mrs. Tania Figueroa to the Laboratory of Andreas Schmidt-Rhaesa in December 2017. I hope follow searching financial support to increase the number of students and research on subantarctic and Chilean marine and estuarine biodiversity of

meiofauna and ecosystem services provided by this interesting group.

*Prof. Juan I. Cañete*  
*University of Magallanes*  
*Punta Arenas – Chile*

Tania Figueroa Delgado

Research interests: benthic macrofauna, meiofauna, neuston and marine pollution.

I'm a Chilean marine biologist. I obtained my professional title in the University of Magallanes in Punta Arenas, Chile; my pre-graduate thesis was about marine pollution, specifically in how the heavy metals affect the expression of the gene of protein in the Antarctic sea urchin *Sterechinus neumayeri*, I obtained a scholarship to work in the Antarctic with the INACH (Chilean Antarctic Institute). After that, I worked in other research institute implementing a molecular biology lab and finally I returned to Universidad de Magallanes, where now I work as a research assistant with the professor Ivan Cañete. This year I started to study again to obtain my master degree in the program of this university (Magister en Ciencias con mención en manejo y conservación de recursos naturales subantárticos), and now I am developing a thesis project about the composition and abundance of marine meiofauna in the Magallanes region; meiofauna has not been studied much in this region.

*Tania Figueroa Delgado*  
*Lic. en Ciencias del Mar*  
*Bióloga Marina*

Dr. Nigel J. Marley (UK, Plymouth)

Interests: Returning to the Association after many years mostly due to health issues. Still mainly working on Tardigrada from all environments but also interested in all meiofauna. Currently focusing on developing integrated diagnostic keys and nomenclature lists of names.

Dr. John Moverley Australia, Camberwell  
Research interests: Papua New Guinea deep sea meiofauna communities.

José Cerca de Oliveira (Norway, Oslo)

I am interested in the evolutionary history of meiofauna and invertebrates in general. This includes studying intraspecific (demographic history, selection - broadly population genomics) and interspecific (clade diversification and speciation) levels. Additionally, I am interested at patterns of molecular and genome evolution (e.g. genomic architecture). To study these, I employ population genomic tools such as RAD-seq and genome assembly. Following these interests I am currently a PhD at the University of Oslo, under Torsten Struck. I am quantifying genomic and morphological divergence in a complex of cryptic meiofaunal annelids (*Stygocapitella subterranea*) and delving into the evolutionary history of this complex.

*José Cerca de Oliveira*

### **Remembering Bill Hummon (1932-2017)**



Bill Hummon at St. John Island in 2011, continuing research on the Caribbean gastrotrichs (see Hummon W. D. 2010. Marine Gastrotricha of the Caribbean Sea: a review and new descriptions. *Bulletin of Marine Science*, 86: 661-708.

It is with a deep sorrow and a feeling of big loss that we are writing this note to commemorate our friend, mentor, teacher and collaborator, William (Bill) Dale

Hummon who died at home in Athens, Ohio (USA), on January 1, 2017.

He was born on July 27, 1932, in Akron, Ohio, the son of Dale Levi Hummon and Lorena May Payne Hummon. On December 24, 1958 he married Julia Margaret (Meg) Raper at her family home in Oakton, Virginia. They have two daughters, Julia Margaret Hummon of Honolulu, Hawaii, and Cheryl Hummon of Salem, Oregon.

After earning a BA in Philosophy at the University of Montana, Missoula (1955), Bill was a conscientious objector to military service, and served as an attendant at Apple Creek State Hospital in Ohio in lieu of military service (1955-58). He then returned to the University of Montana for a BS in wildlife biology (1960), and an MA in Teaching of Biology (1961). Subsequently, Bill received a PhD in Zoology at the University of Massachusetts, Amherst (1969), where he conducted seminal research on marine gastrotrichs of New England, described in his thesis "Distributional ecology of marine interstitial Gastrotricha from Woods Hole, Massachusetts, with taxonomic comments on previously described species". His Ph.D. research marked the beginning of a life-long dedication to the Gastrotricha, that enigmatic group of beautiful meiofaunal invertebrates that have captured the attention of zoologists worldwide, and continue to inspire scientists in their quests to understand some of the greatest mysteries of animal evolution. Bill went on to become an inspiring professor of marine biology and zoology at Ohio University, Athens in 1969 (until his retirement in 2002). During his tenure, he was a recipient of several fellowships and scholarships which made it possible to him to travel to and work in England, Scotland and Egypt. Bill's impact on the discipline grew with each passing year; he supervised eleven MS students, two Ph.D. students, three postdoctoral researchers, and produced 110 publications on invertebrate morphology, taxonomy, ecology, ecotoxicology, and the philosophy of science. Bill was active in several scientific societies, acted as President for the International Association of Meiobenthologists (IAM, 1978-79) and was

elected a Fellow of the American Association for the Advancement of Science.

Over 43 illustrious years, he worked with gastrotrichs, copepods, crayfish, insects, rotifers and tardigrades, and described 2 families, 6 genera, and 105 species of gastrotrichs along the way. Bill's focus on marine Gastrotricha allowed him the rare (and envious) opportunity to travel across some of the most historic and beautiful coastal landscapes of the Azores, Belgium, France, Germany, Greece, Ireland, Israel, Italy, Poland, Portugal, the United Kingdom, the Caribbean, and Central and South America. And while his quest to understand gastrotrichs almost always had a global component, this did not mean he ignored his own backyard. Bill's research on fauna of the east and west coasts of the United States remains some of his most influential taxonomic work on the phylum, and even included studies of the effects of pollutants, such as DDT and mine acids, on freshwater species. But whether Bill was traversing the USA in his mobile lab (his vehicle full of portable microscopes and equipment) or traveling across vast oceans and seas, he always kept one eye on the sand and one eye on the microscope.

Bill's importance to gastrotrich research went well beyond his influential publications on systematics and ecology. He also highlighted the very real and very practical problem of conserving type specimens for natural history museums, which is nothing short of impossible when dealing with soft-bodied meiofauna. Bill's hand-drawn illustrations of species always made identification relatively easy for the uninitiated, but without good physical specimens in museum collections, one could never be sure if the animal found on one beach was the same as that on another. Nowadays, molecular sequencing is the preferred choice for species synonymy (and differentiation), but this requires a dedicated lab, skills, and most importantly, funding, which can be in short supply for those who work on meiofauna. Bill's solution to this dilemma predated the molecular revolution and in fact was much simpler, and importantly, globally accessible (free of

charge) via the Internet. He provided the first video recording (SVHS format) of a new taxon, *Prostobuccantia broca* Evans & Hummon, 1991, which was deposited in the National Museum of Natural History, Washington, DC (USNM 235577). Since then, Bill has made innumerable video recordings (in digital format) of new and known species from across the globe, and provided his followers hours (and gigabytes) of video data, photographic images, GPS coordinates, maps, and taxon lists that remain as influential as any DNA barcode. Originally posted on a dedicated server, Bill's works are now part of the Gastrotricha World Portal (<http://www.gastrotricha.unimore.it/moviegallery.htm>).

As well as being a dedicated and involved scientist whom we admired and learned from, Bill was – to us also a great, close and supportive friend, appreciative of good conversation over a dram of single malt, fond of music (and cats), and ready to bring people together.

Bill's influence on our scientific understanding and appreciation of Gastrotricha and the meiofauna in general cannot be overstated. He inspired scientists across the globe, many of whom have never had the chance to meet this extraordinary man, yet, will continue to learn from him well into the 21<sup>st</sup> century and beyond. Bill's legacy will live in the annals of scientific discovery, and in the fond memories of those who knew him and who will never forget him.

*M. Antonio Todaro  
Maria Balsamo  
John Fleeger  
Teresa Radziejewska  
Rick Hochberg*

A list of Bill's publication can be found at <http://www.gastrotricha.unimore.it/news.htm>

## Electronic resources

### Meiobenthic groups within the World Register of Marine Species

The aim of a World Register of Marine Species (WoRMS) is to provide an authoritative and comprehensive list of names of marine organisms, including information on synonymy. While the highest priority goes to valid names, other names in use are included so that this register can serve as a guide to interpret taxonomic literature. Next to taxonomy, the system can also store distribution information, literature, attributes or traits, specimen information including type localities and images.

The World Register of Marine Species (WoRMS) is available at [www.marinespecies.org](http://www.marinespecies.org). The text on the WoRMS pages is open-access under the terms of the Creative Commons Attribution License (CC-BY), which permits unrestricted use as long as the provided citation is used. Upon request by the editors-in-charge, a dedicated portal can be created for a taxonomic group – referred to as a Global Species Database – giving more visibility to their group and recognition to the involved editors. It also allows editors to elaborate more on their group and - in some cases – a dedicated news feed and twitter messages. An overview of the available registers for phyla containing meiobenthic representatives

Total number of species names (accepted & unaccepted) available in each group (including all environments, excluding fossil species)		
Taxa	# species	Portal
Cnidaria	22 560	through WoRMS
Platyhelminthes	24 602	<a href="http://www.marinespecies.org/turbellarians/">http://www.marinespecies.org/turbellarians/</a>
Nemertea	2 725	<a href="http://www.marinespecies.org/nemertea/">http://www.marinespecies.org/nemertea/</a>
<i>Gnathostomulida</i>	113	through WoRMS
<i>Kinorhyncha</i>	363	through WoRMS
<i>Loricifera</i>	28	through WoRMS
Nematoda	10 855	<a href="http://nemys.ugent.be/">http://nemys.ugent.be/</a>
Rotifera	317	through WoRMS
<i>Gastrotricha</i>	1 069	through WoRMS
Priapulida	21	through WoRMS
Sipuncula	1 294	through WoRMS
Annelida	25 439	through WoRMS (in part: <a href="http://www.marinespecies.org/polychaeta">http://www.marinespecies.org/polychaeta</a> )
Arthropoda - Copepoda	23 071	<a href="http://www.marinespecies.org/copepoda/">http://www.marinespecies.org/copepoda/</a>
Arthropoda - Halacaroida	1462	through WoRMS
Arthropoda - Ostracoda	14 521	<a href="http://www.marinespecies.org/ostracoda/">http://www.marinespecies.org/ostracoda/</a>
Arthropoda - Mystacocarida	14	through WoRMS
Arthropoda - Tantulocarida	42	through WoRMS
<i>Tardigrada</i>	1588	<a href="http://www.marinespecies.org/tardigrada/">http://www.marinespecies.org/tardigrada/</a>
Mollusca	113 831	<a href="http://www.molluscabase.org/">http://www.molluscabase.org/</a>
Bryozoa	8 169	through WoRMS
Brachiopoda	679	through WoRMS
Echinodermata	21 176	through WoRMS (in part: <a href="http://www.marinespecies.org/echinoidea">http://www.marinespecies.org/echinoidea</a> & <a href="http://www.marinespecies.org/asteroidea">http://www.marinespecies.org/asteroidea</a> )
Chordata	59 753	through WoRMS
Sarcomastigota	435	through WoRMS
Ciliophora	4 188	through WoRMS

is given in the table. Next to the marine representatives, editors can also document the non-marine taxa in their group, thereby creating a single entry-point for their cross-environment group.

Within the attributes section of WoRMS, it is the goal to document the size class to which each species belongs, so a general filter can be applied to group e.g. all meiofaunal species across taxa. This is still a work in progress. In addition, it will be documented whether species belong to the benthos or the pelagos, taking into account the life stage. Keeping WoRMS and its Global Species Databases up-to-date is a continuous process. New information is entered daily by the taxonomic editors and by the members of our data management team. No database of this size is without errors and omissions. Although we cannot promise to make no errors, but we do promise to follow up and give feedback on any communications pointing out errors. All feedback is very welcome through [info@marinespecies.org](mailto:info@marinespecies.org).

*Leen Vandepitte*

## Recent Literature

### *Marine and general*

Annapurna, C., et al. "Loricifera, an under known phyla: first record of higgins larva of *Armorloricus* (Loricifera: Nanaloricidae) from Indian waters." 46.02 (2017): 317-321.

Ansari, Kapuli Gani Mohamed Thameemul, and Punyasloke Bhadury. "An updated species checklist for free-living marine nematodes from the world's largest mangrove ecosystem, Sundarbans." *Zootaxa* 4290.1 (2017): 177-191.

Bartels, Paul J., Livia J. Bradbury, and Diane R. Nelson. "Marine tardigrades from South Carolina, USA." *Journal of the South Carolina Academy of Science* 15.1 (2017): 7.

Bastami, Kazem Darvish, et al. "Nematode community structure in relation to metals in the southern of Caspian Sea." *Acta Oceanologica Sinica* 36.10 (2017): 79-86.

Caridi, Francesca, et al. "A new Arctic seepage site? Preliminary evidence from benthic community." *EGU General Assembly Conference Abstracts*. Vol. 19. 2017.

Cesaroni, Lucia, et al. "Scanning electron microscopy in the taxonomical study of free-living marine nematodes." *Microscopie* 28.2 (2017): 31-38.

Cvitković, Ivan, et al. "Structure of epibiontic and sediment meiofauna in the area invaded by invasive alga *Caulerpa taxifolia*." *Marine Biology* 164.1 (2017): 4.

de Jesús-Navarrete, Alberto. "Littoral free living nematode fauna of Socorro Island, Colima, Mexico." *Hidrobiológica* 17.1 (2017): 61-66.

Fu, Sujing, et al. "Nematode responses to the invasion of exotic *Spartina* in mangrove wetlands in southern China." *Estuaries and Coasts* 40.5 (2017): 1437-1449.

Fu, Sujing, Guy Boucher, and Lizhe Cai. "Two new ovoviviparous species of the family Selachinematidae and Sphaerolaimidae (Nematoda, Chromadorida & Monhysterida) from the northern South China Sea." *Zootaxa* 4317.1 (2017): 95-110.

Gao, Qun, and Yong Huang. "*Oncholaimus zhangii* sp. nov. (Oncholaimidae, Nematoda) from the intertidal zone of the East China Sea." *Chinese Journal of Oceanology and Limnology* 35.5 (2017): 1212-1217.

Garraffoni, André Rinaldo Senna. "Checklist of Gastrotricha from Mato Grosso do Sul state, Brazil." *Iheringia. Série Zoologia* 107 (2017): 1-4.

Garraffoni, André RS, Maikon Di Domenico, and Rick Hochberg. "New records of marine Gastrotricha from São Sebastião Island (Brazil) and the description

- of a new species." *Marine Biodiversity* 47.2 (2017): 451-459.
- Gąsiorowski, Ludwik, et al. "New insights on the musculature of filospermoid Gnathostomulida." *Zoomorphology* 136.4 (2017): 413-424.
- Gomes-Júnior, Edivaldo, et al. "A new species of *Ligiartcus* (Tardigrada, Arthrotardigrada) from the Brazilian continental shelf, Southwestern Atlantic Ocean." *Marine Biodiversity* (2017): 1-8.
- Hochberg\*, Rick, et al. "A Tribute to William Hummon—Gastrotrich Biologist Extraordinaire." *Proceedings of the Biological Society of Washington* 130.1 (2017): 113-119.
- Janakiraman, A., et al. "Ecological restoration assessment of Adyar creek and estuary using meiofaunal communities as ecological indicators for aquatic pollution." *Regional Studies in Marine Science* 9 (2017): 135-144.
- Jouili, Soufiane, et al. "Environmental quality assessment of El Bibane lagoon (Tunisia) using taxonomic and functional diversity of meiofauna and nematodes." *Journal of the Marine Biological Association of the United Kingdom* 97.8 (2017): 1593-1603.
- Kånneby, Tobias, and M. Antonio Todaro. "A new species of *Aspidiophorus* (Gastrotricha: Chaetonotidae) from the Swedish west coast." *Zootaxa* 4290.2 (2017): 390-394.
- Kiko, Rainer, et al. "Colonization of newly forming Arctic sea ice by meiofauna: a case study for the future Arctic?." *Polar Biology* 40.6 (2017): 1277-1288.
- Martelli, Antonela, et al. "Two new species of free-living marine nematodes of the family Oxystominidae Chitwood, 1935 (Enoplida) with a review of the genus *Thalassoalaimus* de Man, 1893 from the Argentine coast." *Zootaxa* 4250.4 (2017): 347-357.
- Montagna, Paul A., et al. "Persistent impacts to the deep soft-bottom benthos one year after the Deepwater Horizon event." *Integrated environmental assessment and management* 13.2 (2017): 342-351.
- Morad, Tzachy Y., Zvy Dubinsky, and David Iluz. "Meiobenthos Assemblages as Bioindicators for Coastal Pollution Assessment." *Science* 7 (2017): 409-423.
- Netto, Sergio A., and Gustavo Fonseca. "Regime shifts in coastal lagoons: Evidence from free-living marine nematodes." *PLoS one* 12.2 (2017): e0172366.
- Nguyen, Dinh Tu, et al. "Meiobenthos communities for different mangrove types in Can Gio Biosphere Reserve, Vietnam." *Proceedings of DalRybVtuz (Vladivostok)*. 41 (2017): 74-84
- Oh, Je Hyeok, et al. "Effect of increased p CO<sub>2</sub> in seawater on survival rate of different developmental stages of the harpacticoid copepod *Tigriopus japonicus*." *Animal Cells and Systems* 21.3 (2017): 217-222.
- Pape, Ellen, et al. "Limited Spatial and Temporal Variability in Meiofauna and Nematode Communities at Distant but Environmentally Similar Sites in an Area of Interest for Deep-Sea Mining." *Frontiers in Marine Science* 4 (2017): 205.
- Pereira, Tiago José, et al. "Patterns of Spatial Variation of Meiofauna in Sandy Beaches of Northwestern Mexico with Contrasting Levels of Disturbance." *Thalassas: An International Journal of Marine Sciences* (2017): 1-11.
- Prasath, D., et al. "New record of two free-living marine nematode species, *Sphaerolaimus balticus* and *Sphaerolaimus islandicus* (Nematoda: Sphaerolaimidae) from Sippighat mangrove region, South Andaman." 46 (2017): 1105-1109.

- Radziejewska, Teresa, Jonne Kotta, and Lech Kotwicki. "Sandy coasts." *Biological Oceanography of the Baltic Sea*. Springer Netherlands, 2017. 457-482.
- Revkova, Tatiana N. "First records of *Microaimus tenuispiculum* de Man, 1922 (Nematoda: Microaimidae) from the Black Sea." *Ecologica Montenegrina* 14 (2017): 74-79.
- Rosli, Norliana, et al. "Review of recent trends in ecological studies of deep-sea meiofauna, with focus on patterns and processes at small to regional spatial scales." *Marine Biodiversity* (2017): 1-22.
- Rubal, Marcos, et al. "A new *Batillipes* (Tardigrada, Heterotardigrada, Batillipedidae) from North Portugal (Atlantic Ocean)." *Marine Biodiversity* 47.3 (2017): 921-928.
- Ruiz-Abierno, Alexei, and Maickel Armenteros. "Coral reef habitats strongly influence the diversity of macro-and meiobenthos in the Caribbean." *Marine Biodiversity* 47.1 (2017): 101-111.
- Sahoo, Gobardhan, et al. "Defaunation of meiofauna in Mumbai bay (India)-A severely polluted area." *Regional Studies in Marine Science* 16 (2017): 98-108.
- Sahoo, Gobardhan, et al. "Epibiotic communities (microalgae and meiofauna) on the pneumatophores of *Avicennia officinalis* (L.)." *Estuarine, Coastal and Shelf Science* (2017).
- Santos, T. M. T., and V. Venekey. "Meiofauna and free-living nematodes in volcanic sands of a remote South Atlantic, oceanic island (Trindade, Brazil)." *Journal of the Marine Biological Association of the United Kingdom* (2017): 1-16.
- Sergeeva, Nelli G., and Derya Ürkmez. "Current views on the diversity and distribution of deep-water meiobenthos at the Turkish shelf (Black Sea)." *Ecologica Montenegrina* 14 (2017): 60-73.
- Shi, Benze, and Kuidong Xu. "*Spirobolbolaimus undulatus* sp. nov. in intertidal sediment from the East China Sea, with transfer of two *Microaimus* species to *Molgolaimus* (Nematoda, Desmodorida)." *Journal of the Marine Biological Association of the United Kingdom* 97.6 (2017): 1335-1342.
- Stark, Jonathan S., et al. "The effects of hydrocarbons on meiofauna in marine sediments in Antarctica." *Journal of Experimental Marine Biology and Ecology* 496 (2017): 56-73.
- Struck, Torsten H., et al. "Two new species in the annelid genus *Stygocapitella* (Orbiniida, Parergodrilidae) with comments on their biogeography." *Zootaxa* 4286.3 (2017): 301-332.
- Tarhan, Lidya G. "Meiofauna mute the Cambrian Explosion." *Nature Ecology & Evolution* 1.10 (2017): 1423.
- Tchesunov, Alexei V. "Free-living nematodes of the genus *Syringolaimus* de Man, 1888 (Nematoda, Enoplida, Ironidae) from the Angola Basin, South-East Atlantic Abyss." *Zootaxa* 4306.4 (2017): 478-500.
- Thai, Tran Thanh, et al. "MEIOFAUNA IN THE MANGROVE-SHRIMP FARMS PONDS, CA MAU PROVINCE." *Journal of Science and Technology* 55.3 (2017): 271.
- Yanko-Hombach, Valentina V., et al. "Meiobenthos as an indicator of gaseous hydrocarbon reservoirs under floor of the Black sea." (2017). Joint Plenary Conference and Field Trip of IGCP 610 and INQUA IFG POCAS Palermo, Italy, 1-9 October 2017: 224-229
- Yin, Shengle, et al. "Seasonal dynamics of meiofaunal distribution in the Dagu River Estuary, Jiaozhou Bay, China." *Acta Oceanologica Sinica* 36.12 (2017): 79-86.
- Zainuri, Muhammad, Sutrisno Anggoro, and Hermin Pancasakti Kusumaningrum. "Proximate Content of

“Klekap”(Microphytobenthos and Their Associated Meiofauna) from Milk-Fish Pond." *IOP Conference Series: Earth and Environmental Science*. Vol. 55. No. 1. IOP Publishing, 2017.

#### *Freshwater*

Arican C, Traunspurger W, Spann N (2017) The influence of thiacloprid on the feeding behaviour of the copepod, *Diacyclops bicuspidatus*, preying on nematodes. *Nematology* 19:1201-1215

Baranov V, Milosevic D, Kurz MJ, Zarnetske JP, Sabater F, Marti E, Robertson AL, Brandt T, Sorolla A, Lewandowski J (2017) Helophyte impacts on the response of hyporheic invertebrate communities to inundation events in intermittent streams. *Ecology* doi: 10.1002/ece.1857

Bozkurt A (2017) First Record of *Epactophanes richardi* Mrazek, 1893 (Copepoda, Harpacticoida, Camptocamptidae) for Turkish Inland Waters. *Turkish Journal of Fisheries and Aquatic Sciences* 17 (1):25-29

Chambord S, Tackx M, Chauvet E, Escobar G, Colas F (2017) Two microcrustaceans affect microbial and macroinvertebrate-driven litter breakdown. *Freshwater Biology* 62 (3):530-543

da Silva GL, Metzethin MH, da Costa T, Rocha MS, Silva DE, Ferla NJ, da Silva OS (2017) Responses of water mite assemblages (Acari) to environmental parameters at irrigated rice cultivation fields and native lakes. *Zoologia (Curitiba)* 34:doi: 10.3897/zooloogia.3834.e19988

Drazina T, Spoljar M, Primc B, Habdija I (2017) Distribution of rotifers and other meiofauna in the bryophytes and hyporheic zone of a karst hydrosystem—an example of a nested community. *Marine and Freshwater Research* 68 (1):43-52

Du Preez G, Majdi N, Swart A, Traunspurger W, Fourie H (2017) Nematodes in caves: a historical perspective

on their occurrence, distribution and ecological relevance. *Nematology* 19 (6):627-644

Garraffoni ARS (2017) Checklist of Gastrotricha from Mato Grosso do Sul state, Brazil. *Iheringia Série Zoologia* 107:doi: 10.1590/1678-4766e2017104

Garraffoni ARS, Araujo TQ, Lourenço AP, Guidi L, Balsamo M (2017) A new genus and new species of freshwater Chaetonotidae (Gastrotricha: Chaetonotida) from Brazil with phylogenetic position inferred from nuclear and mitochondrial DNA sequences. *Systematics and Biodiversity* 15 (1):49-62

Gusakov, Vladimir A., and Vladimir G. Gagarin. "An annotated checklist of the main representatives of meiobenthos from inland water bodies of Central and Southern Vietnam. I. Roundworms (Nematoda)." *Zootaxa* 4300.1 (2017): 1-43.

Haegerbaeumer A, Höss S, Heininger P, Traunspurger W (2017) Is *Caenorhabditis elegans* representative of freshwater nematode species in toxicity testing? *Environmental Science and Pollution Research* doi: 10.1007/s11356-017-0714-7:1-10

Haegerbaeumer A, Höss S, Heininger P, Traunspurger W (2018) Response of nematode communities to metals and PAHs in freshwater microcosms. *Ecotoxicology and environmental safety* 148:244-253

Haegerbaeumer A, Höss S, Ristau K, Claus E, Heininger P, Traunspurger W (2017) The use of meiofauna in freshwater sediment assessments: Structural and functional responses of meiobenthic communities to metal and organics contamination. *Ecological Indicators* 78:512-525

Kolicka M (2017) New Arctic Gastrotrich — Three Chaetonotus (Chaetonotidae) from Longyearbyen (Spitsbergen, Svalbard Archipelago). *Annales Zoologici* 67:131-180



- Kolicka M, Gadawski P, Dabert M (2017) A new species of freshwater Chaetonotidae (Gastrotricha, Chaetonotida) from Obodska Cave (Montenegro) based on morphological and molecular characters. *European Journal of Taxonomy* 354:1-30
- Kreuzinger-Janik B, Brinke M, Traunspurger W, Majdi N (2017) Life history traits of the free-living nematode, *Plectus acuminatus* Bastian, 1865, and responses to cadmium exposure. *Nematology* 19 (6):645-654
- Mendoza G, Traunspurger W, Palomo A, Catalan J (2017) Nematode distributions as spatial null models for macroinvertebrate species richness across environmental gradients: A case from mountain lakes. *Ecology and evolution* 7 (9):3016-3028
- Olson DS, Janssen J (2017) Early feeding of round goby (*Neogobius melanostomus*) fry. *Journal of Great Lakes Research* 43 (4):728-736
- Parry LA, Boggiani PC, Condon DJ, Garwood RJ, Leme JM, McIlroy D, Brasier MD, Trindade R, Campanha GAC, Pacheco LAF (2017) Ichnological evidence for meiofaunal bilaterians from the terminal Ediacaran and earliest Cambrian of Brazil. *Nature Ecology & Evolution* 1 (10):1455-1464
- Ptatscheck C, Putzki H, Traunspurger W (2017) Impact of deposit-feeding chironomid larvae (*Chironomus riparius*) on meiofauna and protozoans. *Freshwater Science* 36 (4):796-804
- Rosati M, Rossetti G, Cantonati M, Pieri V, Roca JR, Mesquita-Joanes F (2017) Are aquatic assemblages from small water bodies more stochastic in dryer climates? An analysis of ostracod spring metacommunities. *Hydrobiologia* 793 (1):199-212
- Shearn R, Schön I, Martens K, Halse S, Krawiec J, Koenders A (2017) Patterns of genetic divergence in the *Ilyodromus amplicolis* lineage (Crustacea, Ostracoda), with descriptions of three new species. *Zootaxa* 4318 (1):1-46
- Spoljar M, Zhang C, Drazina T, Zhao G, Lajtner J, Radonic G (2017) Development of submerged macrophyte and epiphyton in a flow-through system: Assessment and modelling predictions in interconnected reservoirs. *Ecological Indicators* 75:145-154
- Tsiafouli MA, Bhusal DR, Sgardelis SP (2017) Nematode community indices for microhabitat type and large scale landscape properties. *Ecological Indicators* 73:472-479
- Veras, Tatiane Barbosa, et al. "Interação rio-aquífero e a meiofauna do ambiente hiporreico." *Águas Subterrâneas* 31.1 (2017): 20-35.
- Wiackowski K, Kocerba-Soroka W (2017) Selective predation by a harpacticoid copepod on ciliates in phytotelmata: a laboratory experiment. *Hydrobiologia* 790 (1):13-22
- Forthcoming.*
- As a rule, the list of publications contains printed papers only, not "on-line first". As an exception, we put here the reference to important review, which will open the paper collection on a topic of great importance:*
- Zeppilli, D., Leduc, D., Fontanier, C. et al. "Characteristics of meiofauna in extreme marine ecosystems: a review" *Marine Biodiversity* (2017).  
<https://doi.org/10.1007/s12526-017-0815-z>

# INTERNATIONAL ASSOCIATION OF MEIOBENTHOLOGISTS

## APPLICATION FOR MEMBERSHIP OR RENEWAL

The International Association of Meiobenthologists is a non-profit scientific society representing meiobenthologists in all aquatic disciplines. The Association is dedicated to the dissemination of information by publishing a newsletter and sponsoring a triennial International Conference. The newsletter, *Psammonalia*, is published in June and November-December. Membership is open to any person who actively is interested in the study of meiofauna. Annual membership dues are EU\$10 (US\$10) and payment for up to 3 years in advance is possible. New members will receive *Psammonalia* beginning with the first issue of the year joining. Additional contributions to the **Bertil Swedmark Fund**, used to support student attendance at the triennial conferences, is encouraged.

Please check the appropriate boxes:

- New member\*                       Renewing member                       Change of address
- Regular membership (EU\$10 or US\$10)                       Patron or Sustaining membership (EU\$50 or US\$50)

Please send my copy of *Psammonalia* via:                       Air mail (hard copy)                       Email

Name \_\_\_\_\_ Email address \_\_\_\_\_

Address \_\_\_\_\_ Telephone \_\_\_\_\_

\_\_\_\_\_ FAX \_\_\_\_\_

\_\_\_\_\_ City, St/Prov \_\_\_\_\_

Zip/Postal Code \_\_\_\_\_ Country \_\_\_\_\_

EU/US \$ \_\_\_\_\_ enclosed for \_\_\_\_\_ years. (Regular member EU/US\$10, Sustaining EU/US\$50)

EU/US \$ \_\_\_\_\_ enclosed as contribution to the **Bertil Swedmark Fund**.

EU/US \$ \_\_\_\_\_ TOTAL

### Members:

Dues payable in Euros bank transfer *Psammonalia* IBAN BE21 0012 7505 5603- BIC GEBABEBB. Send application to: Dr. Ann Vanreusel, Marine Biology Research group, Krijgslaan 281 (S8), B-9000 Gent, BELGIUM. Ann.vanreusel@ugent.be

Research interests: \_\_\_\_\_

(\*) New members are encouraged to introduce yourself to members in a short bio (ca. 10 lines).