

MICRO2018

INTERNATIONAL CONFERENCE

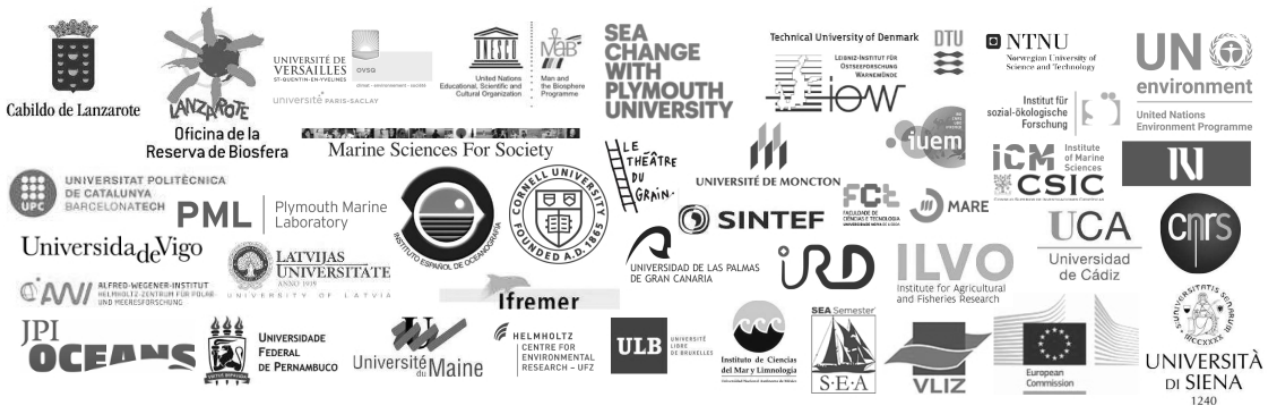
19-23 NOVEMBER 2018 LANZAROTE



FATE AND IMPACTS OF MICROPLASTICS: **KNOWLEDGE, ACTIONS AND SOLUTIONS**

PROGRAMME

*This is the light version of the MICRO 2018 programme
please check the website to have access to the updated version
the proceedings will be published very soon...*



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MICRO is a biannual international conference;
a collaborative process coordinated by the scientific community to share between colleagues and connect with society.*

MICRO 2018 is hosted by: Cabildo de Lanzarote, UVSQ, Plymouth University, AWI, Cornell University, Università di Siena and Marine Sciences For Society.

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Welcome!

Thanks for being here, for coming to Lanzarote, Canary Islands, and sharing your knowledge with All of Us. Please find below the “Where and When” for the week; the conference programme in a nutshell.

| | | |
|---------------------------------------|---------------------|--|
| Monday Nov. 19th | El Cabildo | 8h30, Registration Desk in el Cabildo 9h30, Inauguration Act 10h-12h, Plenary 1 in el Cabildo |
| | Arrecife Gran Hotel | 13h, Registration Desk in Arrecife Gran Hotel 13h-14h30, Set Up Posters 14h30-19h, Plenary 2 and Posters in Arrecife Gran Hotel |
| Tuesday Nov. 20th | Arrecife Gran Hotel | 8h30-17h30, Panels 5.1, 6.1, 7.1, 8.1 and posters 9h-17h, JPI Oceans Microplastics Projects Joint Final Meeting 18h-19h15, Science for Policy: TG Marine Litter Position Paper 19h15, Presentation 2nd JPI Oceans joint call on microplastics 19h30 Cocktail |
| | El Cabildo | 8h30-17h30, Panels 5.2, 6.2, 7.2 and 8.2 |
| Wednesday Nov. 21st | Arrecife Gran Hotel | 8h30-18h.30, Panels 10.1, 11.1, 12.1, 13.1 and posters 8h30-18h.30, Panels 10.2, 11.2, 12.2, 13.2 and posters 8h30-18h.30, Panels 10.3, 11.3, 12.3, 13.3 and posters 19h, Daily Highlights 19h30-20h30, Public Keynote and Film |
| Thursday Nov. 22nd | Arrecife Gran Hotel | 8h30-18h.30, Panels 15.1, 16.1, 17.1, 18.1 and posters 8h30-18h.30, Panels 15.2, 16.2, 17.2, 18.2 and posters |
| | El Cabildo | 19h-20h, Public Keynote 20h, Concert and cocktail |
| Friday Nov. 23rd | Arrecife Gran Hotel | 8h30-17h, Panels 20.1, 21.1, 22.1 and posters 8h30-17h, Panels 20.2, 21.2, 22.2 and posters 17h, Closing Event |



- . **November 19th: 8h30 Registration desk in el Cabildo de Lanzarote.**
- . **November 19th: 9h30 Official Welcome in el Cabildo de Lanzarote.**
- . **Posters displayed from 19 to 23 November in the Gran Hotel, dimensions: A0 (84,1 x 118,9 cm).**
- . **Oral presentations, length 15' max.**

Keynotes and public discussions:

18h-19h15, Tuesday Nov. 20th

Science for Policy: Marine Strategy Framework Directive - Technical Group Marine Litter Position Paper, Georg Hanke, JRC.

Panel Discussion :Andy Booth, Francesco Regoli, Annika Jahnke, Gunnar Gerdts and TG Marine Litter Representatives.

19h30-20h30, Wednesday Nov. 21st

The Megafauna and microplastics tale: Evidence and future development, 25' talk by Maria Cristina Fossi.

Plastic Is Forever, a 19' film by Dylan D'haeze.

Public discussion.

19h-20h, Thursday Nov. 22nd

Marine Litter: Are there solutions to this global environmental problem?, talk by Richard Thompson.

Public discussion.

Concert.

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The students from the "Red Canaria de Centros Educativos GLOBE" will be in front of their posters and exchanging questions with other participants on Wednesday 21st during the Posters session, 13h-14h30'.

Posters:

Microplastics distribution in surface waters in the Western Mediterranean Sea. Alberto Aparicio-González et al., > 222402

Microplastics in sea water of Cienfuegos bay, Cuba. Arianna García-Chamero et al., > 214870

Osteotoxic effects of polycyclic aromatic hydrocarbons adsorbed to microplastics. Marco Tarasco et al., > 215667

Zero plastic Working Group, World Network of Island and Coastal Biosphere Reserves. Juan Baztan et al., > 216192

- On the representativeness of bulk water samples versus manta sampling in microplastic analysis. Matthias Tamminga et al., > 216541
- Microplastics in the municipal wastewater treatment plants at Turkey: Comparison of the influent and secondary effluent concentrations. Sedat Gundogdu et al., > 217629
- Distribution of microplastics along the Scottish coastline using standardized sampling and extraction methods. Lola Paradinas et al., > 217907
- Antifouling paint particles in coastal and estuarine ecosystems. Christina Muller-Karanassos et al., > 218019
- Who bit it? A field guide to bite marks on plastic pollution. Marcus Eriksen et al., > 218280
- Is Phytoplankton dying to tell us its Nanoplastic story? Christina Ripken et al., > 218438
- Evaluation of various digestion protocols within microplastic sample processing concerning their efficiency of organic matter destruction and the resistance of different polymers. Elke Fischer >218471
- First assessment of driving factors for microplastic pollution within the Lake Tollense catchment. Sarah-Christin Stöwer et al., > 218516
- Exploring the impact of microplastic on the Humboldt large marine ecosystem. Chris Walkinshaw et al., > 218567
- Can oysters be used as “passive samplers” for microplastics? Francisca Ribeiro et al., > 218598
- Macro- and microplastics in sediments from Lake Tollense, Germany. Elena Hengstmann et al., > 218613
- Correlations between the small scaled microplastic pollution and grain size distribution of beach sediments on the Isle of Rügen, Baltic Sea, Germany. Jann Folkers et al., > 218650
- The impact of polystyrene microplastic on physiological activities of *Calanus helgolandicus* in the Marmara Sea. Ezgi Türkeri et al., > 218657
- Biomacromolecules and bioplastics from fish waste for high added value applications. Belén Monje et al., > 218671
- Spatial analysis and prediction of microplastics concentrations using geostatistics and optimization. Marisa Pinheiro et al., > 218932
- The OceanWise European project. Stéphane Bruzard et al., > 219124
- Plastic fluxes toward the oceans, contribution of the Schelde river (Belgium). Bert Teunkens et al., > 219222
- The Baltic Sea in the microplastic research map: a model from sources to sinks. Juliana Ivar Do Sul et al., > 219308
- PAEs level in European sea bass *Dicentrarchus labrax* experimentally exposed to PVC microplastics. Matteo Bani et al., > 219313
- Review on microplastic studies in Brazilian aquatic ecosystems. Fabio Araujo et al., > 219602
- Hanging by a fibre: the risk of sample contamination by airborne plastic fibres. Susanne Kühn et al., > 219827
- Microplastic particles in atmospheric deposition of the metropolitan area of Hamburg, Germany. Malin Klein et al., > 219988

Marine Microplastic: Realistic test materials for laboratory studies of ecosystem impacts. Albert Van Oyen et al., > 220002

Thermoanalytical methods for the optimisation of microplastic detection in freshwater sediment samples. Maria Kittner et al., > 220085

Sublethal effect of cadmium in *Donax trunculus* (mollusca, bivalvia): variation in vitellogenin rates during the exposure and depuration period. Nawel Kheroufi et al., > 220207

Introducing quality criteria for the analysis of microplastic in biota samples. Enya Hermsen et al., > 220219

Study of Microplastic formation: Accelerated degradation of polyamide 6 in thermal and hygrothermal environment. Quentin Deshouilles et al., > 220242

Macro-plastic occurrence and flows in large European rivers draining the Mediterranean Sea: the Rhône (France). Javier Castro Jiménez et al., > 220251

Microplastic pollution in aquatic environments of Estonia. Polina Turov et al., > 220260

Litter rim of the Baltic Sea coast: monitoring, impact, and remediation. Irina Chubarenko et al., > 220272

Microplastics in the marine environment: implications on commercially important fish and invertebrate species of the eastern Aegean sea. Alysia Daines-Ravn et al., > 220339

Variations in phthalates concentration present in fin whales (*Balaenoptera physalus*), gray whales (*Eschrichtius robustus*) and humpback whales (*Megaptera novaeangliae*) in Mexican pacific. Gara Goñi Godoy et al., > 220428

Modeling approach of micro- and nanoplastics in aqueous and cell environments. Samuel Hartikainen et al., > 220452

Ingestion of plastic debris (Macro and micro) by longnose lancetfish (*Alepisaurus ferox*) in the North Atlantic Ocean. Jesús Gago et al., > 220481

Influence of solar radiation and plastic type on the bacterial community composition of plastic's biofilm in the North Adriatic Sea. Maria Pinto et al., > 220491

Characterisation of microplastics (floating and ingested by mussels) in the harbor of Marseille (French Western Mediterranean). Olivia Gérigny et al., > 220534

Actions of a marine natural Park in France to reduce impact of marine debris and microplastics in Iroise sea. Patrick Pouline et al., > 220565

The microplastic abundance in surface water increases and the size of plastic particles decreases near urban wastewater and stormwater sources in Lake Kallavesi, Finland. Samuel Hartikainen et al., > 220570

Perception and consumption of plastic: a case study to provide research priority. Boris Eyheraguibel et al., > 220576

Impacts of microplastics on the duckweed *Lemna minor* and potential trophic transfer to the amphipod *Gammarus pulex*. Alicia Mateos Cárdenas et al., > 220938

Microplastics in wild mussels (*Mytilus sp.*) from the north coast of Spain: Comparison between digestive treatments. Pablo Reguera et al., > 221132

Cross-border assessment of microplastics in seafood and salt. De Witte Bavo et al., > 221153

- Narrative role playing - a science multiplication tool- at the AWI school lab OPENSEA on Helgoland. Laura Thiel et al., > 221173
- A “green” analytical approach for the detection of plastic organic additives and related compounds in marine organisms. Javier Castro-Jiménez et al., > 221248
- Ingestion, Depuration and Translocation Kinetics of Microplastics in Blue Mussels (*Mytilus edulis*). Jae-Woong Jung et al., > 221300
- Microplastics as a vector for exposure to hydrophobic organic chemicals in fish; a comparison of two polymers and silica particles, using three different model compounds. Malin Tivefälvh et al., > 221402
- Exposure to Polystyrene microbeads induced behavioural changes in *Daphnia magna*. Marco Parolini et al., > 221612
- Studying (micro)plastics in sediments of Lake Biel, Switzerland. Friederike Stock et al., > 221736
- Impact of recovered marine debris: ecotoxicological analysis using marine zooplankton. Sara López-Ibáñez et al., > 221799
- Assessment of polystyrene uptake by analytical pyrolysis and relationships with physiological responses in the Mediterranean mussel, *Mytilus galloprovincialis*. Alessandro G. Rombolà et al., > 222129
- Microplastic ingestion in fish larvae in the western English Channel. Madeleine Steer et al., > 222141
- Reporting on Microplastic in the Marine Environment: Does Coverage in German Print Media meet the Standards of Quality Journalism? Chantal Hoffmann et al., > 222180
- Compost - a potential source of microplastics: amount, source and composition of plastic materials in feedstock organic wastes. Dominik Dörder et al., > 222219
- Comparison of one-time spiking, multiple spiking and dialysis tubing methods for the determination of plastic-water partition coefficient of one polycyclic hydrocarbons on microplastic. Michael Gottschling et al., > 222220
- Investigating tyre-road wear particles as contributors to microplastic waste. Florence Parker-Jurd et al., > 222247
- Abundance and composition of floating marine macro litter on the eastern sector of the Mediterranean Sea. Emanuel Constantino et al., > 222254
- Polystyrene microplastics did not affect body growth and swimming activity in *Xenopus laevis* tadpoles. Beatrice DeFelice et al., > 222258
- Importance of micro and nano-plastics characterization to assess biodegradation processes. Boris Eyheraguibel et al., > 222272
- Standardised Protocol for Monitoring Microplastics in Sediments. João Frias et al., > 222273
- A comparison of new and conventional methods for isolating microplastics ingested by fish. Jessica Bianchi et al., > 222279
- Plastic debris in *Posidonia oceanica* eegagropiles in coastal waters. Margherita Concato et al., > 222292
- Sub-lethal and embryo-toxicological effects of chrysene-loaded microplastics on the Mediterranean mussel *Mytilus galloprovincialis*. Marco Capolupo et al., > 222302

Marine litter, a threat to biodiversity conservation in the Santa Luzia Marine Reserve. Tomy Melo et al., > 222306

Praia limpa é a minha praia: an environmental project to reduce plastics and microplastics in marine and coastal environments. Melanie Lopes Silva et al., > 222319

Preliminary study on microplastic assessment in the digestive system of marine mammals and turtles found stranded on Samos Island, Eastern Aegean Sea. Guido Pietroluongo et al., > 222326

Dynamics of floating marine debris in the northern Iberian waters: a model approach. Diego Pereiro Rodríguez et al., > 222331

The relevance of particle characterization for microplastic particles (MP) in the environment. Annegret Potthoff et al., > 222333

Multimedia modeling of nano- and microplastics in the environment. Albert Koelmans et al., > 222339

Microplastics in the Belgian Part of the North Sea: spatial variability and ingestion by benthic biota. Carl Van Colen et al., > 222342

Fish, bivalves and polychaeta: microplastics ingestion in Portuguese Coastal waters. Joana Antunes et al., > 222343

Unravelling the pathogenic potential of microplastics in the Weser estuary (Germany). Elanor Jongmans et al., > 222346

Plastics in the beach sands of the Baltic Sea: can some “background contamination” be defined? Elena Esiukova et al., > 222349

The Marine Plastic Microbiome: Microbial Colonization of Polymer Surfaces in the Arctic Marine Environment. Tara Stitzlein et al., > 222354

Microplastics off Italian Coasts: a Comparison between Water Sampling Techniques. Silvia Morgana et al., > 222364

Assessment of semi-persistent and emerging pollutants in microplastics on four Canary Islands beaches. Andrea Carolina Acosta Dacal et al., > 222368

The retention time of microplastics in barnacle naupliar larvae. Sing-Pei Yu et al., > 222380

Do polystyrene microplastic particles modulate the toxicity of pesticides? Mortality and biochemical responses of the snail *Marisa cornuarietis* and the non-biting midge *Chironomus riparius*. Stefanie Kraiss et al., > 222384

Pollution of Algerian coastal marine ecosystems by plastic waste. Nacima Mesli et al., > 222397

The Plastic-Seine research program: integrated approach of microplastic fate and effects in the Seine estuary. Jérôme Cachot et al., > 222404

Microplastics in Galway Bay: Preliminary results. Elena Pagter et al., > 222409

Snow as a route of microplastics from urban areas to sea. Kaisa Pikkarainen et al., > 222411

Assessment of the Trojan horse effect using PAH-contaminated polystyrene microplastics: sorption studies and responses of adult zebrafish. Ignacio Martinez-Alvarez et al., > 222421

- Microplastics in freshwater: surface water, sediments and benthos – a review. Emilie Kallenbach et al., > 222433
- Numerical tracking of debris from a shipping containers spill in the East coast of Australia. Fanglou Liao et al., > 222449
- Bioavailability of microplastic in laboratory exposure studies: What are we exposing to? Colette Nadvornik-Vincent et al., > 222453
- Toxicity of microplastic fibres and their role as a source of emerging pollutants. Dina Tevik Rogstad et al., > 222456
- Detection, characterization and removal of microplastics in wastewater treatment plants: Conventional vs innovative process. Stefania Gorbi et al., > 222458
- Impact of microplastics on phytoplankton. Azenith Castillo et al., > 222460
- The molecular effect of polystyrene microplastics in marine copepod *Tigriopus japonicus*. Jin Soo Choi et al., > 222461
- Bioavailability of benzo[a]pyrene transferred via microplastics to early life-stages of fish through experimental trophic food chains. Annika Batel et al., > 222472
- Identification and environmental evaluation of compounds migrated from polymers in marine medium biodegradation studies. Feliu Sempere et al., > 222494
- Review of existing monitoring programs for marine litter in the Mediterranean Sea. Beatriz Rios et al., > 222495
- Is *Mullus barbatus* a good bioindicator of microplastic marine pollution? Spatial and temporal comparison of microplastic occurrence in the NW Mediterranean. Oriol Rodríguez-Romeu et al., > 222496
- Microplastic retention in a Danish storm water pond. Kristina Olesen et al., > 222500
- Pilot study on possible micro plastic occurrence in marine mammals from German waters. Carolin Philipp et al., > 222502
- Biodegradability of pristine and weathered car tire particles and their individual components. Fabio Polesel et al., > 222517
- Have your say: What are the risks of microplastics? Lisa Zimmermann et al., > 222522
- Adsorption of natural organic matter on microplastic and its effect on dispersion stability. Lars Eitzen et al., > 222523
- Microplastic at Slovenian beaches: study repeated. Špela Korež et al., > 222528
- Do micoplastics induce oxidative stress in marine invertebrates? Sarah Riesbeck et al., > 222532
- Combined effects of microplastics and gold nanoparticles on the marine microalgae *Tetraselmis chuii*. Lúcia Guilhermino et al., > 222533
- May polyethylene microplastics affect ephyrae jellyfish survival and behaviour? Elisa Costa et al., > 222549
- Biological Effects of virgin and weathered Microplastic Particles and their Leachates. Dana Kühnel et al., > 222551

- Microplastics in benthic, pelagic and demersal species along the North Sea coastline of Schleswig-Holstein, Germany. Laura Polt et al., > 222566
- Microplastics in the Marine Environment and Biota of Israeli Coastal Waters. Debra Ramon et al., > 222568
- Uptake of differently sized microplastics in gut passage by different species of *Daphnia*. Suffeiyu Supian et al., > 222569
- Exposure to microplastic: ingestion/egestion rates and behavioural impact on *Solea solea*. Caroline Vignet et al., > 222572
- Preliminary results of plastic pollution analysis in the White, Barents and Kara Seas. Anna Vesman et al., > 222573
- How to get rid of ingested microplastic fibers? A demonstration by the shrimp *Palaemon varians*. Eva Paulischkis et al., > 222574
- Microplastics in cosmetics in the Italian market: an overview. Raffaella Mossotti et al., > 222583
- In vitro effects of polyethylene microplastics on primary cultures and cell lines of fish. Diego Romero et al., > 222586
- Monitoring litter inputs from a river located in the Southwest of Spain to the marine environment: Presence, diversity and seasonal trends in two beaches located close to its mouth. Elisa Rojo-Nieto et al., > 222589
- Microplastic prevalence in the River Weser. Maurits Halbach et al., > 222590
- Fate and Transport of Particulate Plastics in a Pilot Scale Wastewater Treatment Plant (WWTP). Stefan Frehland et al., > 222591
- Toxicological effects of *Solea senegalensis* larvae after exposure to PCB contaminated microplastics. Cátia Gonçalves et al., > 222596
- Exposure of juvenile turbot (*Scophthalmus maximus*) to contaminated microplastic diet: oxidative stress biomarkers, erythrocytic nuclear abnormalities and histopathological effects. Mariaelena D'ambrosio et al., > 222597
- Evaluation of a microplastic sediment separator in the context of MSFD beach microplastic monitoring. Tristan Macadré et al., > 222599
- Adsorption rate study of persistent organic pollutants in function of physical and chemical degradation of marine microplastics. Bárbara Abaroa-Pérez et al., > 222600
- Microplastics ingestion by deep-water catsharks *Galeus melastomus* and *Scyliorhinus canicula* (Chondrichthyes) in the Tyrrhenian sea (Western Mediterranean Sea). Tommaso Valente et al., > 222602
- The sorption potential of 9 pharmaceuticals on the surface of microplastics. Alan Puckowski et al., > 222606
- Swimming behaviour as a new endpoint to assess microplastic effects on marine invertebrates. Chiara Gambardella et al., > 222607
- Microplastic marine pollution: European policy needs. Raffaella Piermarini et al., > 222611
- Numerical modelling of plastic movement in coastal regions. Cleo Jongedijk et al., > 222612
- Microplastics in freshwater systems (southwest Poland) - preliminary results. Urszula Aleksander-Kwaterczak et al., > 222614

Three-dimensional numerical simulation of microplastics dispersal from point sources in the Baltic Sea region. Samor Wongsoredjo et al., > 222621

Tracking plastic incorporation into biogeochemical cycles. Kelsey Rogers et al., > 222623

Citizen science: a useful tool for both microplastic research and environmental engagement. Luis F. Ruiz-Orejón et al., > 222624

Microplastics in polychaetes from the Norwegian continental shelf. Methods for determination and preliminary results from analysis. Jakob Cyvin et al., > 222626

Another top predator in the list: microplastics in Mediterranean Monk Seals. Gema Hernandez-Milian et al., > 222632

Textual synthetic fibres from machine washing and tumble drying: emissions and their reduction. Markus Sillanpää et al., > 222634

Antioxidant and immune status of European sea bass after ingestion, combined or separately, of polyethylene microplastics and oxybenzone. Daniel Gonzalez-Silvera et al., > 222637

Developing baseline for future research on microplastic contamination in urban waters of Gujarat, through rapid evaluation of major water bodies in Ahmedabad. Raj Parmar et al., > 222638

Exploring public views on the issue of microplastics in relation to the recent government imposed plastic ban in western part of India: Perceived causes, perception of stakeholders and the degree of change in the understanding of the issue. Darpan Vaishnav et al., > 222644

Occurrence and identification of small plastic litter in Algerian beaches. Nasr-Eddine Taibi et al., > 222645

Performance of bio-degradable plastic in the marine environment. Christian Lott et al., > 222646

Microplastics presence in Fuerteventura beaches (Cofete and Gran Tarajal). Patricia Ostiategui-Francia et al., > 222649

Detecting microplastics pollution in world oceans using radar satellites. Narangerel Davaasuren et al., > 222651

Exposure of polystyrene microplastics on +0 juvenile *Sparus aurata*: an assessment on ingestion and fatty acid metabolism. Marisa Faria et al., > 222655

Isolation of Plastisphere phototrophs and a look at the early stage plastic colonisation in the Mediterranean Sea. Mira Latva et al., > 222660

Characteristics of conventional and bio-based polymers during sewage sludge treatment. Annett Mundani et al., > 222663

Are drifting microplastics entry vectors of alien species in the Canary Islands? Emilio Soler Onís et al., > 222665

Are microplastics vehicles of bacteria or virus pathogens for marine bivalves? Ika Paul-Pont et al., > 222681

Nanofragmentation of polyethylene and polystyrene macro-plastics under simulated environmental weathering (thermooxidation and hydrodynamic turbulence). Frida Björkroth et al., > 222900

Evaluation of systems for reduction of fibre emissions from washing machines. Francesca DeFalco et al., > 222903

- Plastics in freshwater dams with human impacts: microbial colonization and distribution. Maria Riese et al., > 223405
- Microplastic load from different land-based sources and reflection in abundances in coastal waters and sediment in the eastern Baltic Sea. Inga Lips et al., > 223408
- Plastic litters from the coastal inlets of the northeastern Sea of Marmara: Awareness and some misapplications. Meral Yurtsever et al., > 223413
- Object detection for microplastic using deep learning on microscopic images. Ulaş Yurtsever et al., > 223416
- Macro and Micro(plastics) in the Environment of Some French Rivers. V. Verney et al., > 223804
- Comparison of microplastic content in digestive tracts of two marine vertebrate species in the Mediterranean: loggerhead turtles (*Caretta caretta*) and striped dolphins (*Stenella coeruleoalba*). Olga Novillo et al., > 224107
- Marine bacteria colonize and enrich on plastic pellets. Josefine Hansen et al., > 224312
- CRISS project: an opportunity to integrate marine litter and micro plastics problematic within interdisciplinary projects, while working Digital Competence in the school. Lourdes Guàrdia et al., > 224939
- A protocol to successfully extract DNA from different polymers to investigate microbial diversity and the capacity of polymers to spread harmful marine micro-organisms. Dominique Hervio-Heath et al., > 224998
- Comparative weathering of the nine polymers that constitute the 'Baseman's Kit'. J.M. Andrade et al., > 225021
- A comparison between chemical and enzymatic digestion for the analysis of microplastics in plankton. A. López-Rosales et al., > 225022
- Direct determination of antimony in microplastics by ultrasonic slurry sampling and electrothermal atomization atomic absorption spectrometry. A. Carlosena et al., > 225023
- Chronic effects of polystyrene microplastics on two crayfish species. Joseph Clokey et al., > 222330
- Marine plastic pollution as a planetary boundary threat – The drifting piece in the sustainability puzzle. Patricia Villarrubia-Gómez et al., > 228999
- Bisphenol A and its effect on photoautrophic and heterotrophic organisms. Janka Spackova et al., > 228993
- Bisphenol A as an environmental pollutant with genotoxic effect on human lymphocytes. Ivana Durovcova et al., > 228996
- Impact of microplastics alone or with adsorbed oil compounds from the water accommodated fraction of a North Sea crude oil on marine mussels *Mytilus galloprovincialis*. Nagore Gonzalez Soto et al., > 222636
- Individual and mixture exposures of polyethylene, polypropylene and polystyrene micro- and nanoplastics to freshwater microbial communities. Rebecca Adams et al., > 218630
- Proyectos de investigación en entornos litorales. Red Canaria de Centros Educativos GLOBE. Consjería de Educación y Universidades, Gobierno de Canarias. > 222777

Oral presentations, length 15' max, by day and panel:

November 19th

November 19th – Plenary 1: 10h - 12h (El Cabildo)

Degradation of Polyolefin Plastics Under Marine Exposure Conditions. Anthony Andrady et al. >221486

Clean Coast: project for the study and management of oceanic waste in the Peninsula de Guanahacabibes Biosphere Reserve, Cuba. Lázaro Márquez Govea >222445

Do antifouling paint particles pose a risk to sediment-dwelling biota? Matthew Cole et al., >217883

Global Plastic Waste Fluxes from Coastal and Riverine Sources Doubled between 1990 and 2015. Kevin Lang et al., >222513

Use of the risk assessment paradigm to organise and prioritize microplastic research needs. Albert Koelmans et al., > 222398

Understanding the effects of the plastic additive Bisphenol A (BPA) on estuarine food webs. Irene Martins et al., > 222162

November 19th – Plenary 2: 14h30 - 17h (Arrecife Gran Hotel)

Are there microplastics in drinking water? – A study on microplastics occurrence at different water treatment plants, Central Europe region. Kateřina Novotná et al., >219168

Accumulation of plastic debris and associated contaminants in aquatic food webs. Noël Diepens , >220028

What about us? Effects of nano- and microplastics on human immune cells. Annkatrin Weber et al., > 222157

Occurrence of Microplastics in Commercial Seafood from Korea and Human Exposure. Nan-Seon Song et al., >222490

Investigating the presence of microplastic in Danish drinking water. Jakob Strand et al., >222531

Development of a jet pump based microplastic sampling system for freshwaters. Gabor Bordos et al., >218343

High Concentrations of Microplastics in the Bed Sediments of the Rhine River. Thomas Mani et al., >222323

A methodology to characterize macroplastic dynamics in rivers. Tim Van Emmerik et al., >218875

November 20th

November 20th – Panel 5.1: 8h30 - 10h (AGH), Panel chaired by Mateo Cordier.

OC-TECH: The first efficient recovery vessel of microplastic and microalgae. Santiago Miranda et al., >221331

The Plastics Manufacturers efforts to prevent marine litter. Anne-Gaelle Collot et al., > 222413

Acute need of Legal Framework for management of marine debris and Microplastics in India. Shwetal Shah et al., >222467

Development of a novel technological approach for the reduction of microplastic pollution in seawater desalination plants and for sea salt extraction.. Michael Strum et al., >222635

Treatment stage effect on microplastic abundance and fate during passage through a tertiary wastewater treatment plant. Reina Blair et al., 220405

Understanding the retention of nanoplastics at rock and mineral surfaces. Krishna Darbha Gopala et al., >222537

November 20th – Panel 5.2: 8h30 - 10h (EC), Panel chaired by Pennie Lindeque.

From the sewer to the sea - microplastic transport and fate in freshwater systems. Merel Kooi et al., >219963

Microplastics going Dutch: A systems approach to understand microplastics measured in riverine surface waters and sediments. Svenja Mintenig et al., >220178

Laboratory and numerical testing of transport mechanisms of microplastics in rivers. Kryss Waldschläger et al., >220181

Numerical modelling of microplastic transport in Weser estuary and Wadden Sea. Gholamreza Shiravani et al., >221060

Giving value to plastic bottles: an effective solution for the top ocean polluter., Ana Gutierrez-Dewar. >234165

Plastic input from the Seine River into the oceans: first results from the MacroPLAST project. Romain Tramoy et al., >221549

November 20th – Panel 6.1: 10h30 - 12h30 (AGH), Panel chaired by Juliana-A. Ivar-do-Sul.

Microplastic pollution of the Akyatan Beach one of the most important sea turtle nesting area at NE Mediterranean Coasts of Turkey. Cem çevik , >221175

Marine litter monitoring in the Neva Bay (Baltic Sea): first results. Tatjana Eremina et al., >222426

Microplastics pollution on the beaches at the northern Black Sea coast during the monitoring of beaches sediments in 2016–2018. Elena Sibirtsova , > 222506

Accumulation of microplastics on sandy beaches of Mediterranean islands as an effect of tourism. Michaël Grelaud et al., >222565

Quantity and type of plastics in the beaches of the region of Murcia (SE Spain): towards a monitoring of marine litter in the marine spatial planning. Juan Santos-Echeandía et al., > 222576

THE FRENCH APPROACH FOR MSFD BEACH MICROPLASTIC MONITORING : PRESENTATION AND FIRST RESULTS. Camille Lacroix et al., >222594

Microplastic pollution on Gran Canaria island beaches. Jorge Rapp et al., >222664

November 20th – Panel 6.2: 10h30 - 12h30 (EC), Panel chaired by Martin Wagner.

Effects of microplastics presence on different developmental stages in invertebrate species. Silvia Messinetti et al., > 218490

The impact of microplastic ingestion on the behaviour of the Common Periwinkle *Littorina littorea*. Darragh Doyle et al., >222275

Food quality and microplastics alter feeding behavior and digestive enzyme activities in marine isopods. Reinhard Saborowski et al., > 222563

Do synthetic and natural microparticles cause similar cellular effects in marine invertebrates?. Špela Korez et al., >222525

Zebrafish exposure to high-density polyethylene and polystyrene microplastics: effects on liver transcriptome and gastrointestinal histology. Cristina Panti et al., > 219343

Bioaccumulation and gut microbiome response in the great pond snail *Lymnaea stagnalis* exposed to PBDEs in the presence and absence of nylon microplastics. Alice Horton et al., >222620

TROPHIC TRANSFER OF MICROPLASTICS FROM COPEPODS TO PLANKTIVOROUS AND THEIR IMPACTS. RAJU PILIYAN et al., 222567

November 20th – Panel 7.1: 14h - 15h30 (AGH), Panel chaired by Tania Montoto.

PHOTOCHEMICAL FRAGMENTATION OF FRESHWATER (MICRO)PLASTICS UNDER UV IRRADIATIONS. Haroutioun Askanian et al., >222392

Influence of environment and polymer morphology on fragmentation and production of micro/nanoplastics. Fanon Julienne et al., >222544

Characterization of nanoplastic aggregation as a function of temperature and ionic strength. Nisha Singh, >222647

Photodegradation of PE small microplastics : erosion vs fragmentation. Nair Gireeshkumar Balakrishnan et al., >222659

Woven metal filter media for microplastics sampling from water. Dominik Herper et al., > 222519

An unexplored type of microplastics revealing a neglected way of plastic fragmentation found in the beaches of Hong Kong. Beverly Po Hoi Ki et al., >222670

November 20th – Panel 7.2: 14h - 15h30 (EC), Panel chaired by Bethany Jorgensen.

Freshwater plastic pollution: recognizing research biases and identifying knowledge gaps. Martin Blettler et al., >220527

Sampling microplastics in turbulent rivers using a stationary net from a bridge: what should be the sampling duration? How many samples are needed to reduce bias? Antoine Bruge , >220549

Evaluating citizen science as a technique for spatial analysis in freshwater ecosystems: A case study in the Ottawa River watershed, Canada. Shaun Forrest et al., > 220857

Microplastic pollution in the River Trent UK, and the use of EASYLIFT to optimise microplastic recovery. Amy Osborne , >221085

Effectiveness of distinct methods for isolation of microplastics in freshwater systems. Nelson Abrantes et al., >221860

Toward automated plastic detection in rivers. Kees van Oeveren et al., 220483

November 20th – Panel 8.1: 15h45 - 17h30 (AGH), Panel chaired by Matthew Cole.

Impacts and implications of plastic adhesion to corals surface. Cecilia Martin et al., > 217818

Bioavailability and ingestion of microplastic by zooplankton in the natural environment. Penelope Lindeque et al., > 218867

Mechanisms and effects of microplastic ingestion by planktivorous fish. Nicolas Ory et al., >220053

Novel methods for the determination of microplastic in sediment and biota from the Norwegian continental shelf. Arne Pettersen et al., > 220252

Gastropod pedal mucus facilitates uptake of microplastics by marine periwinkles. Lars Gutow et al., >221053

Are sea squirts playing a role in the transportation of marine plastics? Vicky Dewar-Fowler et al., > 222491

Microalgae as Microplastics Bioflocculators. César Cunha et al., > 222639

Does heat stress increase the susceptibility of marine bivalves to microplastic pollution? Mark Lenz , >222476

November 20th – Panel 8.2: 15h45 - 17h30 (EC), Panel chaired by Melanie Bergmann.

The role of vertical mixing on the global distribution of near-surface microplastic. David Wichmann et al., > 220271

How do different physical processes affect the pathways of floating microplastic? The Parcels Lagrangian Ocean analysis framework. Philippe Delandmeter , >220906

A large scale mesocosm approach to simulate chemical and biological effects of microplastics in a high-plastic ocean. Luisa Galgani et al., > 221998

MODELING PLASTIC WASTE FLOWS IN THE MEDITERRANEAN ENVIRONMENT: A SOURCE TO SINK APPROACH. Lisa Weiss et al., > 222410

Numerical Model Simulation to improve the understanding of Micro-Plastics Debris in marine environments: sensitivity of microplastics fate to particles physical properties and behaviour. Isabel Jalon-Rojas et al., > 222443

Laboratory experiments and numerical modelling of plastic particles beaching. Jose M. Alsina et al., > 222480

Why does floating microplastic accumulate in the subtropical gyre of the North Atlantic Ocean? Victor Onink et al., > 220238

Tracking nanoplastics in aquatic organisms at environmentally realistic concentrations. Maya AL-SID-CHEIKH et al., 222581

November 20th, JPI Oceans panels, Microplastics Projects Joint Final Meeting (AGH).

9h-9h10, Welcoming Remarks, Objectives of the Day, N.N., BMBF Germany

9h10-9h55, Project results BASEMAN: (i) General Introduction (Gunnar Gerdts); (ii) From the cradle to the spectrum (Jesus Gago); (iii) Analytics of microplastics (Sebastian Primpke) and (iv) Challenges, limitations and opportunities in identifying small microlitter particles (Martin Hasselöv).

9h55-10h40, Project results WEATHER-MIC: (i) General introduction (Annika Jahnke); (ii) The influence of weathering on the sinking behavior of microplastic (Erik Toorman); (iii) Characterization and effect testing of leachates liberated during UV light-induced weathering of polymers (Christoph Rummel) and (iv) Ecological relevance of microplastic effect testing with a focus on weathering (Zandra Gerdes).

10h40-11h, Coffee Break.

11h-11h45, Project results PLASTOX: (i) General Introduction (Andy Booth); (ii) Uptake and Accumulation of microplastic (Laura Airoidi); (iii) Toxic effects of ingested microplastic (Paula Sobral); (iv) Adsorption and desorption of pollutants to microplastic (Kaori Sakaguchi-Soder) and (v) Bioavailability of pollutants adsorbed to microplastic (Andy Booth).

11h45-12h30, Project results EPHEMARE: (i) General Introduction (Ricardo Beiras); (ii) Uptake and accumulation (Ronny Blust); (iii) Trophic Transfer (Thomas Braunbeck); (iv) Toxicity assessment (J Bellas) and (v) Field validation (Stefania Gorbi).

12h30-13h15, Lunch including Poster Session.

13h15-14h, Cross-cutting theme I: Towards standardized Methods. *Short presentations (max. 6-7 min) followed by an open discussion of the topic, chaired by Gunnar Gerdts:* (i) Standardised methodologies: Challenges of implementation (Joao Frias); (ii) Quantifying trophic transfer (Laura Airoidi); (iii) Measuring presence and effects of MPs in biota (Francesco Regoli); (iv) The cost/information issue in microplastics research (Arne Petersen) and (v) Towards a standards Initiative (Andrea Held).

14h-14h45, Cross-cutting theme II: Weathering and Degradation. *Short presentations (max. 6-7 min) followed by an open discussion of the topic, chaired by Annika Jahnke:* (i) Annegret Potthoff: Advanced particle characterization and weathering-induced changes (WEATHER-MIC); (ii) Soledad Muniategui-Lorenzo: Highlights of the Photodegradation of the Baseman's polymers (BASEMAN); (iii) Ketil Hylland: The relevance of microplastic weathering for environmental impacts (EPHEMARE) and (iv) Andy Booth: UV, mechanical and hydrolytic degradation of synthetic polymer fibres from textiles (PLASTOX).

14h45-15h, Coffee Break.

15h-15h45, Cross-cutting theme III: Ecotoxicological Impacts on Marine Organisms. *Short presentations (max. 6-7 min) followed by an open discussion of the topic, chaired by Ricardo Beiras:* (i) Biofilm - Plastic interactions (Mechthild Schmitt-Jansen, WEATHER-MIC); (ii) Title TBD (BASEMAN); (iii) Uptake, transfer and toxicity of microplastics - from unicellular organisms to vertebrates (Xavier Cousin, EPHEMARE) and (iv) Effects of ingested and accumulated microplastics (Paula Sobral, PLASTOX).

15h45-16h30, Cross-cutting theme IV: Adsorption and Additives. *Short presentations (max. 6-7 min) followed by an open discussion of the topic, chaired by Andy Booth:* (i) Sorption of persistent organic pollutants on microplastics in European marine environment (Kaori Sakaguchi-Soder, PLASTOX); (ii) Sorption and bioavailability of model pollutants on microplastics (Steffen Keiter, EPHEMARE); (iii)

PLASTOX and BASEMAN; lessons learned from the perspective of pollutants hitch hiking with plastic particles (Dorte Herzke, BASEMAN/PLASTOX) and (iv) Release of chemicals from plastic under strong UV radiation (Merle Plassmann, WEATHER-MIC).

16h30-17h, Concluding Remarks

18h-19h15, Science for Policy: Marine Strategy Framework Directive - Technical Group Marine Litter Position Paper, Georg Hanke, JRC. Panel Discussion :Andy Booth, Francesco Regoli, Annika Jahnke, Gunnar Gerdts and TG Marine Litter Representatives. Moderation: N.N., TG Marine Litter.

19h15-19h30, Presentation 2nd JPI Oceans joint call on microplastics - N.N. - BMBF (Germany).

19h30, Cocktail.

November 21st

November 21st – Panel 10.1: 8h30 - 10h (AGH), Panel chaired by Paula Sobral.

Microplastic distribution in coastal waters. Bhavani Narayanaswamy et al., > 218189

Spatio-temporal monitoring of coastal marine plastics. Montserrat Compa et al., > 220590

From coastal to oceanic micro-meso and macroplastics in the SE Bay of Biscay. Oihane C. Basurko et al., >221320

Microplastics in the Sea Surface Microlayer in Southampton Water, UK. Jessica Stead et al., > 221337

Distribution of microlitter in a gradient from a city to sea to identify main sources. Karin Mattsson et al., > 222656

Microplastics in the Portuguese coastal waters. Clara Lopes et al., > 222616

November 21st – Panel 10.2: 8h30 - 10h (AGH), Panel chaired by Jesús Gago.

Can a microbial community be artificially evolved to degrade plastic? Robyn Wright et al., > 219257

A deeper look into the biodegradation of micro-plastics through metabolomics approach. Boris Eyheraguibel et al., > 222173

Beyond oil degradation: Enzymatic potential of Alcanivorax strain to degrade other natural and synthetic polymers. Vinko Zadjelovic , >222558

Can biodegradable plastic contribute to the mitigation of marine plastic pollution? Christian Lott et al., > 222630

The determination of half-life of biodegradable polymers in the marine environment. Andreas Eich et al., > 222643

Nanoparticles produced from the degradation of biodegradable microplastic severely affect aquatic microorganisms. Miguel Tamayo-Belda et al., > 223411

November 21st – Panel 10.3: 8h30 - 10h (AGH), Panel chaired by Gunnar Gerdts.

Effects of nylon microplastic on development and energy reserves in coldwater copepods. Matthew Cole et al., > 217597

Microplastics prevail at all ocean depths of the HAUSGARTEN observatory (Arctic). Mine B. Tekman et al., >219135

An investigation of microplastic contamination in the Arctic Central Basin. LaDaana Kanhai et al., >220422

Blown to the North? Microplastic in snow fallen out from the atmosphere of Europe and the Arctic. Melanie Bergmann et al., >220492

Determination of temporal changes of POP sorption and additive release as well as spectrometric characteristics to a variety of polymers under Arctic marine conditions. Dorte Herzke, >220775

May waterborne polyethylene affect gilthead sea bream eggs hatching and hatchlings survival, by inducing changes in lipid metabolism? Paula Canada et al., > 222667

November 21st – Panel 11.1: 10h30 - 12h30 (AGH), Chaired by Juliana-A. Ivar-do-Sul and Jesús Gago.

Microplastic release by Wastewater Treatment Plants and study on ecotoxicological effects induced by virgin microbeads on zebra mussel *Dreissena polymorpha*. Stefano Magni et al., >218423

Sources of microplastics pollution into the marine environment: importance of wastewater treatment plant and coastal dump. Maria Kazour et al., > 220482

Microplastic dynamics in agricultural systems: Insights from Spanish and Canadian case studies. Rachel Hurley et al., > 221391

Synthetic fibers affecting soil animals - soil animals affecting synthetic fibers. Salla Selonen et al., >222314

Microplastics in urban stormwaters – designing a method to evaluate the microplastic discharges via stormwaters. Julia Talvitie, >222627

Industrial compost as an important source of microplastics. Tamara Gajšt et al., >222658

Release of synthetic microplastic fibres from domestic washing machines: Effects of fabric type and washing conditions. Imogen Napper, > 223805

Shipyards: a source of microplastic and micro-paint particles spreading to the marine environment. Alvise Vianello et al., >222281

November 21st – Panel 11.2: 10h30 - 12h30 (AGH), Panel chaired by Salud Deudero.

Sampling microplastics –a comparative study of a manta trawl and a filtering pump. Therese Karlsson et al., >220548

Distribution of microplastics in the mixed layer: results from the Volvo Ocean Race. Sören Gutekunst et al., > 220952

Microplastics at the first 200 meters of the water column in the Atlantic Ocean. Daura Vega-Moreno et al., > 222367

Floating microplastics in the Western Mediterranean Sea and their export by marine aggregates. William De Haan et al., > 222389

Plastics and epiplastic communities in surface waters of the south atlantic and austral oceans. Ana Luzia Lacerda et al., >222539

Monitoring plastic pollution in the Azores Archipelago: from surface down to the deep seafloor and in biota. Yasmina Rodríguez et al., > 222695

Spatial distribution of microplastics in North Sea surface waters and sediments. Claudia Lorenz et al., > 222601

November 21st – Panel 11.3: 10h30 – 12h30 (AGH), Panel chaired by Lisa Devriese.

Development of a Py-GC/MS method and its application to identify marine microplastics. Alexandre Dehaut et al., > 215072

ADVANCES IN HIGH THROUGHPUT ANALYSIS OF MICROPLASTICS. Mikaël Kedzierski et al., > 218843

Freshwater compartments: Screening method for polymer identification and mass contents of microplastic particles using TED-GC-MS. Korinna Altmann et al., > 220509

Solvent extraction combined with Py-GCMS: A fast tool for microplastics analysis?. Maurits Halbach et al., > 221063

Identification of microplastic particles and fibers using vibrational spectroscopy coupled to multivariate analysis. Maria El Rakwe et al., > 222464

Deep Learning vs Classical Computer Vision Techniques for Microplastics Classification. Javier Lorenzo-Navarro , >222587

Microplastics identification and quantification with Py-GCMS – an improved method for reliable weight related data. Marten Fischer, >219973

Identification and characterization of biocidal microlitter particles from leisure boat and commercial ship antifouling paint, using correlative microscopy (LM and SEM-EDS). Martin Hassellöv et al., > 222652

November 21st – Panel 12.1: 14h30 - 16h (AGH), Panel chaired by Annika Jahnke.

Microplastics in marine sediments of the Mississippi River delta (Gulf of Mexico). Annerieke Bouwman et al., > 219921

Concentrations and morphology of microplastic in the Seine River estuary. Soline Alligant et al., >221177

Microplastics in sediments from stormwater retention ponds. Fan Liu , >222300

Process controls on microplastic recontamination in fluvial sediments due to flooding. Annie Ockelford et al., > 222350

Microplastic particles in the Ebro Delta, Spain: occurrence, composition and sources. Laura Simon et al., > 222386

Assessing microplastic abundance and distribution in the surface waters of the Mondego river estuary (Portugal). Filipa Bessa et al., > 222618

November 21st – Panel 12.2: 14h30 - 16h (AGH), Panel chaired by TBD

MICROFIBER INGESTION IN OTARIIDS ALONG CHILEAN AND PERUVIAN COAST: A POSSIBLE SENTINEL OF BIOMAGNIFICATION? Diego Perez-Venegas et al., > 220447

A STOCHASTIC MATRIX POPULATION MODEL REVEAL SUBTLE, BUT IMPORTANT, POPULATION-LEVEL EFFECTS, OF THE ENTANGLEMENT WITH MACROPLASTICS IN A SOUTHERN FUR SEAL POPULATION FROM NORTH PATAGONIA, CHILE. Cristóbal Galbán et al., > 220449

Marine plastic pollution in the Southern Ocean. Claire Waluda et al., > 222489

Microplastic Pollution in the Southern Ocean. Cath Waller et al., >222493

Beyond 62°S: Plastic litter on the coasts of King George Island, Antarctica. Juan Pablo Lozoya et al., >222662

Plastic pollution around Antarctica – preliminary results from the Antarctic Circumnavigation Expedition (ACE). Giuseppe Suaria et al., >215698

November 21st – Panel 12.3: 14h30 - 16h (AGH), Panel chaired by Paula Sobral.

Microplastic pollution in upstream river catchments. Thomas Stanton et al., >215388

An opportunistic monitoring approach for the evaluation of surface plastic debris pollution in Western Mediterranean Sea, Iberian Coasts and Macaronesia. Gael Potter , >220556

Citizen Observatories to reduce and identify marine plastic pollution loads. Luisa Galgani et al., > 222235

Aerial detection of plastic pollution in the marine environment using a novel, hyperspectral infrared camera on a UAV. Jennifer Cocking et al., > 222393

Experiences and potentiality of a continuous microplastic sampler: performance onboard opportunity vessels to increase oceanic sampling efforts.. Tania Montoto-Martínez et al., > 222484

Microplastics in European Fleur de Sel and Sea Salts – a qualitative and mass-quantitative geographic comparison. Marten Fischer et al., > 220695

November 21st – Panel 13.1: 16h30 - 18h30 (AGH), Panel chaired by Gunnar Gerdt.

Analytical approach for the identification and quantification of microplastic particles in aquatic samples by a combination of particle analysis with FTIR and Raman microscopy. Dieter Fischer et al., > 222267

Optimising the Workflow for Microplastic Analysis by FTIR Microscopy. Ian Robertson , > 222335

Measuring the sub 10 µm fraction - Microplastic analysis of particles <10 µm using µFTIR imaging. Nikki Van Alst et al., > 222452

nano-FTIR - from defined to environmental (nano)plastic samples. Michaela Meyns et al., > 222463

Comparison of µ-ATR-FTIR spectroscopy and py-GCMS as identification tools for microplastic particles and fibers isolated from river sediments. Andrea Käßler et al., > 222504

The use of spiked samples for the validation of microplastic recovery and analysis methods: density separation, enzymatic purification and FTIR analysis. Rachid Dris et al., > 222564

A freeware tool for the manufacturer independent analysis of microplastics allowing the automated analysis of FTIR imaging data. Sebastian Primpke et al., > 221334

November 21st – Panel 13.2: 16h30 – 18h30 (AGH), Panel chaired by Lars Gutow.

First data on plastic litter ingested by seabirds in the Bay of Biscay. Javier Franco et al., > 215233

Double trouble in the South Pacific subtropical gyre: Increased plastic ingestion by fish in the oceanic accumulation zone. Markic Ana et al. , > 217708

Ingestion of plastic by fish: a comparison of Thames Estuary and Firth of Clyde populations. Alexandra Mcgoran et al., > 220221

Microplastic monitoring in the Orkney Islands, Scotland. Angela Capper et al., > 222222

DISTRIBUTION AND BIOLOGICAL EFFECTS OF MICROPLASTICS IN MARINE ORGANISMS FROM THE ADRIATIC SEA. Carlo Giacomo Avio et al., > 222329

Long-term community effects of nano- and microplastics on freshwater benthic macroinvertebrates. Paula Redondo Hasselerharm et al., > 222435

From Science to Solutions: Investigating the Impacts of Marine Litter on the Galapagos Marine Foodweb. Jen Jones , > 222610

Microplastics in small coastal and off-shore fishes in the Baltic Sea. Outi Setälä et al., > 222337

November 21st – Panel 13.3: 16h30 - 18h30 (AGH), Panel chaired by Andy Booth.

Association of metals with plastic production pellets in KwaZulu-Natal, Durban Harbour.. Refilwe Mofokeng , > 216923

A STANDARD PROTOCOL FOR THE ASSESSMENT OF MICROPLASTICS TOXICITY USING PLANKTONIC MARINE ORGANISMS. Ricardo Beiras et al. , > 222462

ADSORPTION OF MERCURY TO MICROPLASTICS AND VECTORIZATION TO MARINE ORGANISMS. Juan Santos-Echeandía et al., > 222535

Are microplastics facilitating the accumulation of organic pollutants in benthic bivalves?. Maria Bebianno et al., > 221219

Microplastics as vectors of organic contaminants in the marine environment. Juan Bellas et al., > 222520

Plastics debris as organic pollutants vector between littoral areas and the sea. Víctor M. León et al., >222615

Comparison of sorption capacity of persistent organic pollutants (POPs) on plastic resin pellets from different origins using a quick sorption method. Kaori Sakaguchi-Söder et al., > 220659

November 22nd

November 22nd – Panel 15.1: 8h30 - 10h (AGH), Panel chaired by TBD

Trace nanoplastic and microplastic fiber analysis in wastewaters and activated sludge: synthesis and utility of metal doped plastics. Denise Mitrano et al., > 222598

A NOVEL MICROPLASTIC EXTRACTION TECHNIQUE FOR THE DETECTION OF MICROPLASTICS IN THE LIVER, BLOOD AND FILLET OF EUROPEAN SEA BASS, DICENTRARCHUS LABRAX. Sinem Zeytin et al., > 222550

New methodologies to collect and analyse micro-debris ingested by loggerhead turtle (*Caretta caretta*).. Ana Liria-Loza , >224070

The use of Polysorbate 20 as an “optimizer” component in the alkaline digestion of fatty fish digestive tract for microplastic extraction. Clara Lopes et al., > 222617

Comparison of chemical extraction and microwave-assisted digestion techniques for metal desorption from plastic pellets by ICP-MS. Ana Rita M. Mendes et al., > 222516

Fingerprinting of chemicals released from plastic polymers by UV-light. Berit Gewert et al., > 222508

November 22nd – Panel 15.2: 8h30 - 10h (AGH), Panel chaired by TBD

Inter-annual monitoring of microplastics in marine intertidal sediments of the Firth of Forth. Mark G. J. Hartl et al., > 191106

THE CONTRIBUTION OF AQUACULTURE INDUSTRY IN THE GLOBAL MARINE MICROPLASTICS POLLUTION: FIRST RECORD OF LEVELS AND DISTRIBUTION IN COASTAL SEDIMENTS COLLECTED NEAR A PRODUCTION SITE IN THE SOUTH WEST OF NORWAY. Alessio Gomiero et al., >222262

Fast and manageable determination of the microplastics in the sediment. Hana Fajković et al., > 222366

Sediment trapping – A method for monitoring microplastic litter influx in aquatic sediments. Saija Saarni et al., >222454

The First Occurrence, Spatial Distribution and Characteristics of Microplastic Particles in Sediments from Banten Bay, Indonesia: Potential Impact for Benthic-Pelagic Coupling Food Web. Dede Falahudin et al., >222619

Combining hydrodynamic modelling-based sampling with FPA- μ FTIR-Imaging automated analysis: first evidence of microplastic pollution in the sediments of the Limfjord (Denmark). Alvise Vianello et al., > 222264

November 22nd – Panel 16.1: 10h30' - 12h30' (AGH), Panel chaired by François Galgani.

Microplastics in the deep: an assessment from the Rockall Trough, Northeast Atlantic Ocean. Winnie Courtene-Jones et al., >214578

The imprint of microplastics from textiles in southern European deep seas. Anna Sanchez-Vidal et al. , > 219666

Microplastic occurrence and distribution from discharge points to deep basins in an urban model fjord. Marte Haave et al., > 220007

The role of bioturbation in distributing secondary microplastics in soft marine sediments. Pinja Näkki et al., > 220510

Assessing the overlap between plastics in seafloor habitats and ingested in species. Carme Alomar et al., > 222361

Current data does not confirm that deep sea sediments are the final sink for all microplastics. A meta-analysis.. Gabriel Erni Cassola , > 222542

Do microplastics in marine sediments affect inbenthic organisms? Ketil Hylland , > 222622

Tracing microplastics in aquatic environments based on sediment analogies. Kristina Enders et al., > 220412

November 22nd – Panel 16.2: 10h30' - 12h30' (AGH), Panel chaired by TBD

A holistic approach to address plastic pollution on a local scale - The Roskilde Fjord case. Kristian Syberg et al. , >222492

University Freshmen´s Conceptions about Microplastics in Aquatic Ecosystems. Tabea Loermann et al., > 220239

Príncipe Island UNESCO Biosphere Reserve - Towards a plastic free Island in 2020. Antonio Abreu, > 222327

“OceanWise - Promoting social change”. Flávia Silva et al., > 222575

“Less Plastic more Mediterranean”: a Research and Awareness campaign in the Mediterranean Sea”
Francesca Garaventa et al., > 222578

A social-ecological framework tackling plastic pollution. Takuro Uehara et al., > 225830

Plastic in the Environment – Sources, Sinks, Solutions. Ulf Stein et al., > 222904

Putting the ‘Work’ back into Workshop – the EPHEMARE stakeholder workshop on microplastics in the marine environment. Kathrin Kopke et al., > 220611

November 22nd – Panel 17.1: 14h30 - 16h (AGH), Panel chaired by Carolin Völker.

Communicating Plastic Pollution through Art. Swaantje Guentzel , > 216172

Simple Visuals = Powerful Messages = Real Change. Muntasir Mamun , > 217985

Marine Plastic Pollution in the Media: A Survey on German Daily Newspapers 2007 – 2017. Ismeni Walter , > 219900

Telling stories about (micro)plastic pollution: Media images, public perceptions and social change. Lesley Henderson , > 220055

Marine Debris: art, science and education to awaken environmental values. Ana Lacerda et al., > 222274

Consumer responses to single-use packaging. Sohvi Nuojuua , >222424

Microplastics and Medusae. Expeditions into H2O. Art as a “mastic medium” to foster the interdisciplinary exchange on plastic pollution of aquatic environments. Roman Kroke. > 222777

November 22nd – Panel 17.2: 14h30 - 16h (AGH), Panel chaired by Arnaud Huvet.

Microplastics: an unexplored journey inside zebrafish embryos. Camilla Carla Parenti et al., > 220658

Differential effects of pollutant-spiked microplastics on two model fish, zebrafish and marine medaka. Bettie Cormier et al., > 222377

Contamination of the ichthyofauna by the microplastics in the catches of some species in the southern Cameroon coast. David Mboglen , > 222385

Effects of small-sized plastics in marine organisms: mussels and fish. Irene Brandts et al., > 222605

Physiological consequences of chronic exposure of marine medaka to microplastics. Florane Le Bihanic et al., > 220350

Investigating marine litter in remote Arctic Islands. Eelco Leemans > 214650

November 22nd – Panel 18.1: 16h30 - 18h30 (AGH), Panel chaired by Tania Montoto.

LITTERBASE: An Online Portal for Marine Litter and Microplastics and Their Impacts for Marine Life. Mine B. Tekman et al., > 221369

Lessons from the past: Using Machine Learning to mine the literature for past observations of marine litter. Erik Van Sebille et al., > 220153

Sustained ocean observations of marine plastic contaminants as an essential component of the Global Ocean Observing System. Maciej Telszewski et al., > 222374

Plastic pollution from a Civic Ecology perspective: A Lanzarote case study. Bethany Jorgensen et al., > 222657

From the Plastics Strategy to microplastics: the policy framework. Valentina Bertato , >220550

REACH Restriction on intentional uses of microplastics. Peter Simpson , > 225468

Identification and Quantification of Microfibers and Microparticles via Automated Analysis. Sebastian Primpke et al., > 221322

Future scenarios of global plastic waste production and disposal. Laurent Lebreton et al., > 220402

November 22nd – Panel 18.2: 16h30 - 18h30 (AGH), Panel chaired by Ricardo Beiras.

A long term exposure experiment tests the effects of irregular and spherical microplastics on juvenile blue mussels *Mytilus edulis*. Thea Hamm et al., > 222648

Differential responses between two marine bivalves to environmentally relevant concentrations of microplastics. Messika Revel et al., > 222713

Effects of exposure to microplastics alone and with adsorbed benzo(a)pyrene on marine mussels *M. galloprovincialis* at cell, tissue and physiological levels. Joseph Hatfield et al., > 222588

Furthering the dynamic uptake model for virgin microplastics: application to the blue mussel (*Mytilus edulis*). Camilla Catarci Carteny et al., > 222603

Physiological effects of small micro- and nanoparticles - A comprehensive review. Tanja Kögel et al., >222628

Mytilus spp. as sentinel species for marine water-borne microplastic pollution: a case study from the Norwegian environment. Amy Lusher et al., > 222642

Transfer of microplastics from the water column to sediments by the suspension- feeder *Mytilus galloprovincialis*. Stefania Piarulli et al., > 219930

November 23rd

November 23rd – Panel 20.1: 8h30' – 10h (AGH), Panel chaired by Carolin Völker.

Speculative ecologies: How to deal yet unpredictable effects of microplastics in the ocean from a social science perspective? Sven Bergmann > 198525

Reducing and eliminating plastic waste via change in social behaviour. Ifeanyi Chukwujekwu >220635

Ecological risk assessment of microplastics in the marine environment. Gert Everaert et al., > 222270

Risk perception of microplastics. An explorative study identifying aspects potentially influential in risk perception of microplastics. Laura Bomm > 198129

A risk in the making – discussions on microplastics in science, media and public. Carolin Völker > 222371

An invisible threat” – Representations of microplastics in the German media. Sarah Schönbauer > 222412

November 23rd – Panel 20.2: 8h30' – 10h (AGH), Panel chaired by TBD

Recycled low-density polyethylene and tyre rubber cause erratic behaviour, oxidative stress and mortality in brackish water copepod *Limnocalanus macrurus* in laboratory experiments. Maiju Lehtiniemi et al., > 220472

Microplastics alter feeding selectivity and faecal density in the copepod *Calanus helgolandicus*. Rachel Coppock et al., > 221616

Microplastic Ingestion by Calanoid Copepods in the SE Black Sea. Ulgen Aytan et al., > 222548

Microplastic properties and environmental conditions influence PAH sorption and bioavailability to copepods. Andy Booth et al., > 220201

Benchmarking the uptake and excretion dynamics of microplastics in the marine copepod *Calanus finmarchicus*. Iurgi Salaberria et al., > 222485

Are fish that live in different zones reliable indicators of microplastic pollution? Luca Palazzo et al., > 222486

November 23rd – Panel 21.1: 10h30' - 12h30' (AGH), Panel chaired by Martin Wagner.

Bioavailability of microplastic to marine zooplankton: effect of shape and infochemicals. Zara L. R. Botterell et al., > 220341

The translocation of microplastics to lipid droplets of *Daphnia magna* is an artefact. Christoph Schür et al., > 222365

Effects of low density polyethylene microplastics contaminated with PFOS on *Daphnia magna*. Alexandre Pacheco et al., > 222511

Effect of chemical and biological ageing on polyethylene and the subsequent toxicity in *D. magna*. Katie Reilly et al., > 222514

Microplastics-Daphnia interactions: importance of surfactant. Maureen Deniel et al., > 222584

Exposure to conventional but not biodegradable microplastics decreases fitness in *Daphnia magna*. Zandra Gerdes et al., > 222613

Towards improved predictions of dispersal of weathering microplastics in the aquatic environment by numerical modelling. Erik Toorman et al., > 222348

Microplastics Disrupting the Biological Pump? Alina Madita Wiczorek et al., > 222438

November 23rd – Panel 21.2: 10h30' – 12h30' (AGH), Panel chaired by Gunnar Gerdts.

Microplastics concentrations in freshwater during a flood event, a case study of the Seine river catchment. Robin Treilles et al., >222478

Seasonal Patterns of Microplastic Occurrence and Affiliated Bacterial Communities. Jessica Song et al., > 219856

Characterization of microplastics from sea turtles, (*Caretta caretta*), stranded along the northern adriatic sea. Cinzia Centelleghé et al., > 221058

Dissolved organic carbon leaching from plastics stimulates microbial activity in the ocean. Cristina Romera Castillo et al., >221399

Plastic intake in Mediterranean sea birds. Joan Frias-Perez et al., > 222440

Evaluating the effect of plastics on marine microbial communities. Ahmed Nawaz et al., > 222556

Microplastic presence in loggerhead turtles (*Caretta caretta*) stranded in Gran Canaria Island. Patricia Ostiategui-Francia et al., > 224071

Colonization of microplastics and transformation of sorbed PCBs by a marine microbial community. Antonella Rosato et al., > 222418

November 23rd – Panel 22.1: 14h30' – 16h30' (AGH), Panel chaired by Arnaud Huvet.

Nanoplastics exposures to gametes and embryos affect larval development of oyster. Kévin Tallec , > 228354

Eat microplastics, die early? Do microplastics lead to higher mortality of barnacle larvae. Sing-Pei Yu , > 220478

Physiological responses of *Crassostrea virginica* larvae exposed to microplastics. Christine Knauss et al., > 220525

Assessing effects of microplastics' ingestion in fish: from innate immune responses and intestinal barrier function to hepatic stress. Giedre Asmonaite et al., > 221395

Do chemicals transfer to or from microplastics in the gut?. Mohamed Nor Nur Hazimah , >222008

Effects of polystyrene microplastics in different life stages of brown trout (*Salmo trutta f. fario*). Hannah Schmiege et al., > 222379

Assessing the impact of environmental microplastics in fish using cell line, embryos, larvae and juvenile. Bénédicte Morin et al., > 222403

A mid-scale temporal and spatial analysis of microplastic ingestion in the deep-water red shrimp *Aristeus antennatus*. Ester Carreras-Colom et al., > 222499

November 23rd – Panel 22.2: 14h30' – 16h30' (AGH), Panel chaired by TBD

Riverine macroplastics in Jakarta. Michelle Loozen et al., > 220496

Microplastic prevalence in benthic macroinvertebrates: preliminary evidence of microplastic particles among primary consumers in a lotic environment. James O Connor et al., > 220951

(Micro)plastics in Sediment and Water Samples of the Rivers Elbe and Lahn, Germany. Friederike Stock et al., > 221609

Spatio-temporal distribution of microplastics in water and sediments of a southern european river (Antuã river, Portugal). Ana M. M. Gonçalves et al., > 222407

Microplastics in two contrasted rivers discharging into the Northwestern Mediterranean Sea. Mel Constant et al., > 222417

Microplastics in the Italian lakes: main results of two monitoring years. Lucia Coscia et al., > 222497

Microplastics monitoring in water bodies of the North-West of Russia. Ekaterina Ivanova et al., > 222585

November 23rd 17h, Closing Event...

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FATE AND IMPACTS OF MICROPLASTICS: KNOWLEDGE, ACTIONS AND SOLUTIONS

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