



**μMED**

## INTERNATIONAL CONFERENCE ON MICROPLASTIC POLLUTION IN THE MEDITERRANEAN SEA

CAPRI SEPTEMBER 26<sup>TH</sup> - 29<sup>TH</sup> 2017 HOTEL LA RESIDENZA - CAPRI (NA) - ITALY

26-set AFTERNOON				
5:00 PM	7:00 PM	Registration - Welcome - Wine & Cheese		
27-set MORNING SESSION				
9:00 AM	9:30 AM	Registration		
9:30 AM	10:00 AM	Maurizio Avella Maurizio Peruzzini  Cosimo Carfagna Salvatore Iannace  Federico di Penta	Institute for Polymers, Composites and Biomaterials - CNR, Italy Department of Chemical Sciences and Materials Technologies - CNR, Italy Institute for Polymers, Composites and Biomaterials - CNR, Italy Institute for Macromolecular Studies - CNR, Italy  Marevivo, Italy	Opening, welcome and introduction
MICROPLASTICS AND MARINE ENVIRONMENT Chairman: Mario Malinconico				
10:00 AM 10:30 AM	10:30 AM 11:00 AM	Paul Connett Cyrill Gutsch	Zero Waste Movement, USA Parley for the Oceans, USA	Getting to the front end of microplastic pollution of the sea The air we breathe
11:00 AM	11:30 AM	Coffee break		
11:30 AM	12:00 PM	Antonio Navarra	Euro-Mediterranean Center on Climate Change, Italy	Climate Change and Impacts on the Mediterranean Basin
12:00 PM	12:15 PM	Alexandra Ter Halle	Université de Toulouse, France	To what extent microplastic from the open ocean are weathered?
12:15 PM	12:30 PM	Maiju Lehtiniemi	SYKE Marine Research Centre, Finland	Wintertime microplastics in different depth layers in the northern Baltic Sea
12:30 PM	12:45 PM	Mikael Kedzierski	Université Bretagne Sud, France	Challenging the microplastic extraction from sandy sediments
12:45 PM	1:00 PM	Raquel Villalba	Leitat Technological Center, Spain	Are our synthetic fabrics released into the marine environment? Evidences on microplastics pollution in waste water coming from our laundry
1:00 PM	2:30 PM	Lunch		
27-set AFTERNOON SESSION				
MICROPLASTICS IN THE MEDITERRANEAN SEA Chairwoman: Lola Rodriguez				
2:30 PM	3:00 PM	Richard Thompson	Plymouth University, UK	How concerned should we be about microplastics?
3:00 PM	3:15 PM	Svitlana Liubartseva	Foundation Euro-Mediterranean Centre on Climate Change, Italy	Towards 3D modeling the plastic marine debris in the Mediterranean
3:15 PM	3:30 PM	Giuseppe Andrea de Lucia	Institute for Coastal Marine Environment - CNR, Italy	Microplastics in the Mediterranean Sea and impacts on biota
3:30 PM	3:45 PM	Stefania Gorbi	Polytechnic University of Marche, Italy	Distribution of microplastics in Adriatic food webs
3:45 PM	4:00 PM	Manuela Piccardo	University of Trieste, Italy	Preliminary assessment of microplastic accumulation in wild Mediterranean fish species
4:00 PM	4:30 PM	Coffee break		
4:30 PM	5:00 PM	Francois Galgani	Institut Français de Recherche pour l'Exploitation de la Mer, France	An overview of plastic pollution in the Mediterranean Sea: the importance of microplastics
5:00 PM	5:15 PM	Noam Van Der Hal	University of Haifa, Israel	A temporal survey of microplastics ingested by herbivorous Eastern Mediterranean siganids
5:15 PM	5:30 PM	Natascha Schmidt	Aix Marseille Université, France	Zooplankton and plastic additives – insights into the chemical pollution of the low-trophic level of the Mediterranean marine food web
5:30 PM	5:45 PM	Mel Constant	Université de Perpignan, France	Floating microplastics in the NorthWestern Mediterranean Sea: strong temporal and spatial heterogeneities
5:45 PM	7:00 PM	POSTER SESSION		

**28-sep MORNING SESSION**
**IMPACT OF MICROPLASTICS ON HUMAN AND MARINE LIFE / DEGRADATION OF MICROPLASTICS IN MARINE ENVIRONMENT**
**Chairwoman: Raffaella Mossotti**

<b>9:30 AM</b>	<b>10:00 AM</b>	<b>Maria Cristina Fossi</b>	<b>University of Siena, Italy</b>	<b>Impact of microplastics on Mediterranean biodiversity</b>
10:00 AM	10:15 AM	John van den Hoff	Australian Antarctic Division, Australia	Size selective feeding by mesopelagic fish can change sea-surface microplastic abundance: impact of marine life on microplastic abundance
10:15 AM	10:30 AM	Jean-François Ghiglione	Observatoire Océanologique de Banyuls, France	Impact of microplastics on marine microbial life
10:30 AM	10:45 AM	Stefania Piarulli	University of Bologna, Italy	Microplastics occurrence in the gastrointestinal tract of key marine invertebrates at different trophic levels from the North Adriatic coast
10:45 AM	11:00 AM	Dror Angel	University of Haifa, Israel	Microplastics as ephemeral and possibly preferred substrates for planktonic cnidarian planulae
<b>11:00 AM</b>	<b>11:30 AM</b>	<b>Coffee break</b>		
<b>11:30 AM</b>	<b>12:00 PM</b>	<b>Roberto Danovaro</b>	<b>Stazione Zoologica Anton Dohrn, Italy</b>	<b>Impact of microplastic on the deep sea</b>
12:00 PM	12:15 PM	Filipa Bessa	Universidade de Coimbra, Portugal	Microplastics in juvenile commercial fish from a natural estuarine environment
12:15 PM	12:30 PM	Christophe Brunet	Stazione Zoologica Anton Dohrn, Italy	Dynamics and fate of microplastics in pelagic ecosystem: a large mesocosms integrated-ecosystem approach
12:30 PM	12:45 PM	Maria Luiza Pedrotti	Université Pierre et Marie Curie, France	TARA Mediterranean expedition: Assessing the impact of microplastics on Mediterranean ecosystem
12:45 PM	1:00 PM	Ludovic Hermabessiere	Agence Nationale de Sécurité Sanitaire de l'Alimentation, France	Leaching of a common antioxidant (Irgafos 168 ®) from microplastics using in vitro enzymatic model
<b>1:00 PM</b>	<b>2:30 PM</b>	<b>Lunch</b>		

**28-sep AFTERNOON SESSION**
**IMPACT OF MICROPLASTICS ON HUMAN AND MARINE LIFE / DEGRADATION OF MICROPLASTICS IN MARINE ENVIRONMENT**
**Chairwoman: Maria Westerbos**

<b>2:30 PM</b>	<b>3:00 PM</b>	<b>Tamara Galloway</b>	<b>University of Exeter, UK</b>	<b>Impacts of microplastics on humans and marine life</b>
3:00 PM	3:15 PM	Ika Paul-Pont	Institut Universitaire Européen de la Mer, France	Nanopolystyrene inhibits the allelopathic activity of <i>Alexandrium Minutum</i>
3:15 PM	3:30 PM	Lucia Pittura	Polytechnic University of Marche, Italy	Long term exposure of <i>mytilus galloprovincialis</i> to benzo(a)pyrene-contaminated LD-PE microparticles
3:30 PM	3:45 PM	Costanza Scopetani	University of Florence, Italy	PBDEs in <i>Talitrus Saltator</i> (Montagu) (crustacea, amphipoda) and the trade-off effect of microplastics
3:45 PM	4:00 PM	Kévin Tallec	Institut Français de Recherche pour l'Exploitation de la Mer, France	Nanoplastics impacts on gamete quality of Pacific oyster, <i>Crassostrea Gigas</i>
<b>4:00 PM</b>	<b>4:30 PM</b>	<b>Coffee break</b>		
<b>4:30 PM</b>	<b>5:00 PM</b>	<b>Pietro Ferraro</b>	<b>Institute for Applied Sciences and Intelligent Systems - CNR, Italy</b>	<b>New imaging tools for detection and sorting of microplastics in marine environment</b>
5:00 PM	5:15 PM	Dannielle Green	Anglia Ruskin University, UK	Microplastics affect the ecological functioning of an important biogenic habitat
5:15 PM	5:30 PM	Evdokia Syranidou	Technical University of Crete, Greece	Degradation of microplastics by indigenous marine communities
5:30 PM	5:45 PM	Kathrin Oelschlagel	Fraunhofer Institute of Ceramic Technologies and Systems, Germany	Imitating the weathering of microplastics in the marine environment
<b>6:30 PM</b>	<b>Departure to restaurant "Il Faro" in Anacapri for the social dinner</b>			

## SUSTAINABILITY, SOLUTIONS AND NEXT STEPS

Chairman: Cosimo Carfagna

<b>9:30 AM</b>	<b>10:00 AM</b>	<b>Gunter Pauli</b>	<b>Zero Emission Research Initiative</b>	<b>From nuisance to resource - the design of the next generation of polymers</b>
10:00 AM	10:15 AM	Francesco Degli Innocenti	Novamont, Italy	Biodegradable plastics – Marine biodegradability and potential mitigation of plastic littering and microplastic formation
10:15 AM	10:30 AM	Ester Kentin	Leiden University, The Netherlands	Banning microbeads in cosmetic products: legal challenges
10:30 AM	10:45 AM	Giorgio Zampetti	Legambiente, Italy	The first study about the widespread presence of plastic pellets along the Italian coast. An assessment of the threat of microplastics marine pollution from an environmental NGO's point of view
10:45 AM	11:00 AM	Miriam Weber	Hydra Institute for Marine Sciences, Italy	Assessing marine biodegradability of plastic – towards an environmentally relevant international standard test scheme
11:00 AM	11:15 AM	Christian Lott	Hydra Institute for Marine Sciences, Italy	Marine fate of biodegradable plastic – substitution potential and ecological impacts
<b>11:15 AM</b>	<b>11:45 AM</b>	<b>Coffee break</b>		
<b>11:45 AM</b>	<b>12:15 PM</b>	<b>Gaetano Leone</b>	<b>UNEP - Mediterranean Action Plan</b>	<b>Final remarks</b>
<b>12:15 PM</b>	<b>12:30 PM</b>	<b>Maurizio Avella</b>	<b>Institute for Polymers, Composites and Biomaterials - CNR, Italy</b>	<b>Conclusions - Best poster award ceremony</b>