Conference Programme



(as of May 31, 2018)

REGISTRATION DESK IS OPEN:

Sunday afternoon (June 24): 17:00 – 20:00

Monday and Tuesday (June 25-26): 08:00 – 13:00 & 17:00 – 20:30

Wednesday and Thursday (June 27-28): 08:00 – 13:30

SUNDAY, JUNE 24TH, 2018

20:00 - 22:00 Ice-breaker & Welcome Party at Conference Venue (Minoa Palace Hotel, next to the pool of the North Building – Conference Center near the beach)

MONDAY, JUNE 25 TH , 2018					
09:00 - 09:30		Opening Ceremony – ROOM A			
		N. Kalogerakis, F. Fava, E.J. Olguin, Conference co-Chairs			
		N. Kalogeris, Region of Crete			
		E. Diamantopoulos, Rector, Technical University of Crete			
09:30 - 10	.20	PLENARY LECTURE #1 – ROOM A			
09:30 - 10	1.30	Chairpersons: Nicolas Kalogerakis & Philippe Corvini			
ID 240		MAKE THE IMPOSSIBLE POSSIBLE: INSECTS DIGEST PLASTICS			
		Professor Jun Yang			
		Dept. of Biochemistry and Enzyme Engineering, School of Chemistry, Beihang University			
		(Beijing University of Aeronautics & Astronautics), Beijing, China			
10:30 - 11:00		Coffee break & Poster Viewing (Section A)			
11:00 - 13:00		SESSION - 1A: PLASTICS BIODEGRADATION & MARINE LITTER –			
		ROOM A			
		Chairpersons: Jun Yang and Hermann J. Heipieper			
	P4SB -	FROM PLASTIC WASTE TO PLASTIC VALUE USING PSEUDOMONAS			
ID 123		A SYNTHETIC BIOLOGY			
(Keynote) Hermann J. Heipieper ¹ , Lars Blank ² and Nick Wierckx ² , for the P4SB consortium					
		Environmental Biotechnology, Helmholtz Centre for Environ. Research - UFZ, Leipzig, Germany			
ID 101		² Institute of Applied Microbiology - iAMB, RWTH Aachen University, Aachen, Germany			
ID 124	TOWARDS BIORECYCLING: ISOLATION OF A SOIL BACTERIUM THAT GROWS				
	UN A P	POLYURETHANE OLIGOMER AND MONOMER			

	Christian Eberlein, Anna Atanasoff, Andrea Colina Blanco, Ilaria de Santis and Hermann J.
	Heipieper
	Dept of Environmental Biotechnology, Helmholtz Centre for Environ. Research - UFZ, Leipzig, Germany
ID 383	DEGRADATION OF PLASTICS IN MARINE MICRO- AND MESOCOSMS
	Evdokia Syranidou, Aikaterini Karkanorachaki, Panagiota Tsiota, Giorgos Dasenakis,
	Despoina Barouta, Aikaterini Savva, Maria Loli and Nicolas Kalogerakis
TD 404	School of Environmental Engineering, Technical University of Crete, Chania, Greece
ID 121	ENGINEERING PSEUDOMONAS PUTIDA FOR PLASTIC MONOMER UTILIZATION
	Wing-Jin Li ¹ , Lars Blank ¹ and Nick Wierckx ¹
	¹ Institute of Applied Microbiology (iAMB), RWTH Aachen University, Aachen, Germany
ID 122	ENGINEERING AND APPLICATION OF BACTERIAL POLYESTER HYDROLASES
	FOR THE RECYCLING OF POLYETHYLENE TEREPHTHALATE (PET) AND
	POLYESTER POLYURETHANE (PUR) WASTE
	Ren Wei and Wolfgang Zimmermann
TD 444	Dept of Microbiology & Bioprocess Technology, Institute of Biochemistry, Leipzig University, Germany
ID 233	MICROBIAL DEGRADATION OF LOW-DENSITY POLYETHYLENE AND SYNTHESIS
	OF BIODEGRADABLE POLYHYDROXYALKANOATE POLYMERS
	David B. Levin ¹ and Zahra Montazer ^{1,2}
	¹ Department of Biosystems Engineering, University of Manitoba, Winnipeg, Canada ² Department of Food Science and Technology, Ferdowsi University of Mashhad, Mashhad, Iran
ID 231	LINEAR LOW DENSITY POLYETHYLENE FILMS: MODELLING OF WEATHERING
1D 231	BY UV EXPOSURE FOLLOWED BY BIODEGRADATION IN SEAWATER
	Evangelos Birbas and Nicolas Kalogerakis
	School of Environmental Engineering, Technical University of Crete, Chania, Greece
11:00 - 13:	
	METALS – ROOM B
	Chairpersons: Grzegorz Siebielec & Svetlana Gorelova
ID 120	AGROMINING: FARMING FOR METALS AND THE VALORIZATION OF METAL-
	CONTAMINATED LANDS AND WASTES
	Alan J M Baker ^{1,2,3} , Jean Louis Morel ¹ , Guillaume Echevarria ¹ and Antony van der Ent ^{1,2}
	¹ Laboratoire Sols et Environnement and LABEX Ressources21, ENSAIA/INRA, Université de Lorraine,
	Vandoeuvre-lès-Nancy, France
	² Centre for Mined Land Rehabilitation, Sustainable Minerals Institute, The University of Queensland, Brisbane,
ID 244	Australia ³ School of BioSciences, The University of Melbourne, Parkville, Victoria 3010, Australia THORIUM AS AN ENVIRONMENT STRESSOR FOR PLANT GROWTH
ID 244	Petr Soudek ¹ , Aneta Hrdinová ^{1,2} , Kateřina Mazari ^{1,3} , Daniel Kufner ¹ , Přemysl Landa ¹ , Sylva
	Přerostová ^{2,4} , Karel Muller ⁴ , Zuzana Lhotáková ² , Martin Mihaljevič ⁵ , Šárka Petrová ¹ , Jana
	Albrechtová ² and Tomáš Vaněk ¹
	¹ Lab of Plant Biotechnologies, Institute of Experimental Botany AS CR, Czech Republic
	² Dept. of Experimental Plant Biology, Charles University of Prague, Czech Republic
	³ Faculty of Environmental Sciences, Czech University of Life Sciences Prague, Czech Republic
	⁴ Lab of Hormonal Regulations in Plants, Institute of Experimental Botany AS CR, Czech Republic
	⁵ Inst. of Geochemistry, Mineralogy & Mineral Resources, Charles University of Prague, Czech Republic
ID 248	HEAVY METAL PHYTOREMEDIATION OF POPLAR CLONE IN A CONTAMINATED
	SOIL IN SOUTHERN ITALY
	Valeria Ancona ¹ , Anna Barra Caracciolo ² , Claudia Campanale ¹ , Paola Grenni ² , Martina Di
	Lenola ² , Martina Cardoni ² , Ida Rascio ¹ , Giuseppe Mascolo ¹ , Angelo Massacci ³ and Vito
	Felice Uricchio ¹ NDC Water Research Institute Peri Italy, ² NCR Water Research Institute Montageton do Italy.
	¹ NRC, Water Research Institute, Bari, Italy ² NCR, Water Research Institute, Monterotondo, Italy ³ NCR, Inst. of Agro-Environmental and Forest Biology, Monterotondo, Italy
ID 284	HALOPHYTES FOR ROAD RUNOFF REMEDIATION: SALT AND METAL
1D 204	ACCUMULATION IN ATRIPLEX HORTENSIS
	Rémi Suaire ¹ , Ivana Durickovic ¹ , Lucie Frammont-Terrasse ¹ , Jean-Yves Leblain ² , Anne-
	Claire De Rouck ² and Carole Colin ¹
	¹ Cerema Est, Laboratoire de Nancy, 54510 Tomblaine, France
	² Cerema Nord Picardie, Laboratoire de Saint Quentin, 02100 Saint-Quentin, France

ID 253	STUDY PROGRESS ON THE PHYTOREMEDIATION OF HEAVY METAL
	CONTAMINATED SOILS BY BAST FIBER CROPS
	Wang Yu Fu, Qiu Cai Sheng, Guo Yuan, Long Song Hua, Wang Hui and Hao Dong Mei
ID 264	Institute of Bast Fiber Crops, Chinese Academy of Agricultural Sciences, Changsha, China LESSONS FROM GREENHOUSE AND LONG-TERM FIELD PHYTOSTABILISATION
ID 264	TESTING
	Grzegorz Siebielec ¹ , Tomasz Stuczynski ¹ , Sylwia Siebielec ¹ , Nick Basta ² , Piotr Sugier ³ , Pawel
	Radzikowski ¹ and Petra Kidd ⁴
	¹ Institute of Soil Science and Plant Cultivation – State Research Institute, Puławy, Poland ² Ohio State
	University, US ³ Maria Curie-Skłodowska University, Lublin, Poland ⁴ CSIC, Santiago de Compostella,
	Spain
ID 118	ROLE OF PINE BACTERIA IN THE PHYTOREMEDIATION OF HEAVY METAL
	Irum Naz ¹ , Asghari Bano ^{1,2} , Tamoor Ul Hassan ^{1,3}
	¹ Dept of Plant Sciences Quaid-i-Azam University, Islamabad, Pakistan.
	² Dept of Bio Sciences, University of Wah, Pakistan.
	³ Dept of Botany, Garden Campus Hazara University, Mansehra, Pakistan.
ID 139	COPPER BIOACCUMULATION STATUS AND PHYTOREMEDIATION POTENTIAL
	OF SOME AGRICULTURAL PLANT SPECIES GROWING IN POLLUTED
	AGRICULTURAL LANDS OF ARMENIA
	Ghazaryan Karen, <u>Ruzan Avetisyan</u> and Hrant Zhamharyan
	Chair of Ecology and Nature Protection, Yerevan State University, Yerevan, Republic of Armenia
11:00 - 13:	
	PETROCHEMICALS AND PAHs – ROOM C
	Chairpersons: Spiros Agathos & Jian Peng
ID 234	EFEECTS OF BIODIVERSITY OF CONSTRUCTED PAH-DEGRADING CONSORTIA
	ON BIODEGRADATION ACTIVITIES
	Floriana Augelletti ¹ , Spiros N. Agathos ² and Ben Stenuit ^{1,3}
	¹ Bioengineering Laboratory, Earth & Life Institute, Université Catholique de Louvain, Belgium
	² School of Biological Sciences and Engineering, Yachay Tech University, Ecuador
ID 104	³ Joint Research Unit IATE, Polytech Montpellier, University of Montpellier, France
ID 194	IMPLEMENTATION OF A BIOSURFACTANT-ENHANCED TREATMENT FOR SOILS
	IMPACTED BY POLYCYCLIC AROMATIC HYDROCARBONS
	Florian Cazals ^{1,2,3} , David Huguenot ¹ , Stéfan Colombano ³ , Stéphanie Betelu ³ , Nathalie
	Galopin ² , Arnault Perrault ² , Marie-Odile Simonnot ⁴ , Ioannis Ignatiadis ³ and Stéphanie Rossano ¹
	 Laboratoire Géomatériaux et Environnement, University of Paris-Est Marne-la-Vallée, France Colas Environnement, France Bureau de Recherches Géologiques et Minières (BRGM), France
	⁴ Laboratoire Réactions et Génie des Procédés, University de Lorraine, CNRS, France
ID 116	PILOT-SCALE ENHANCED MYCOREMEDIATION OF PETROLEUM
10 110	HYDROCARBON IMPACTED SOIL
	Paul Daniyan ¹ , Wenhui Xiong ² and <u>Jian Peng</u> ¹
	¹ Department of Civil, Geological and Environmental Eng., Univ. of Saskatchewan, Canada
	² Stantec Consulting Ltd., Saskatoon, Saskatchewan, Canada
ID 218	INTEGRATED BIOREMEDIATION STRATEGY FOR CRUDE OIL AND METAL
	CONTAMINATED SOIL USING IMMOBILIZED ACTINOBACTERIA AND
	RHODOCOCCUS-BIOSURFACTANTS
	Maria S. Kuyukina ^{1,2} , Irina B. Ivshina ^{1,2} , Anastasia V, Krivoruchko ² , Tatiana A. Peshkur ³
	and Colin J. Cunningham ⁴
	¹ Microbiology and Immunology Dept., Perm State University, Russia ² Institute of Ecology and Genetics o
	Microorganisms, Perm Federal Research Centre, Russia ³ Dept. of Civil and Environmental Engineering,
	University of Strathclyde, UK ⁴ Sustainability Fife Ltd, Glenrothes, UK
ID 147	ENZYMATIC DEGRADATION OF POLYCYCLIC AROMATIC HYDROCARBONS IN
	INDUSTRIALLY CONTAMINATED SOIL
	Stefan Humel, Bernadette Führer, Daniela Huber and <u>Andreas P Loibner</u>
	Institute of Environmental Biotech., BOKU Univ. of Natural Resources and Life Sciences, Austria
ID 267	MYCOREMEDIATION FOR THE TREATMENT OF TPH CONTAMINATED
	SEDIMENTS: A POSSIRI E DOI E EOD I ICNINOI VTIC RACTEDIA?

	<u>Ilaria Chicca^{1,4}</u> , Simone Becarelli ^{1,2} , Giovanna Siracusa ¹ , Salvatore La China ³ , Giulio Petroni ¹ , David Levin ⁴ and Simona Di Gregorio ¹¹ ¹ University of Pisa, Department of Biology, Pisa, Italy ² BD BioDigressioni srl, Pisa, Italy	
	³ University of Modena and Reggio Emilia, Italy ⁴ University of Manitoba, Canada	
ID 210		POST BIOREMEDIATION OF CRUDE OIL SLUDGE WITH ANIONIC AND
		ONIC SURFACTANTS
		U. Obi ¹ , <u>Harrison I. Atagana²</u> and Rasheed A. Adeleke ³
		tment of Environmental Sciences, University of South Africa. te for Science and Technology Education (ISTE), University of South Africa.
		te for Soil, Climate and Water, Agricultural Research Council, Pretoria, South Africa.
	mstru	to 101 5011, Chimate and Water, Figheartaful Research Council, Fletoria, Bouth Fifted.
13:00 - 14	:00	LUNCH (Minoa Palace Hotel)
14:00 - 17	:00	FREE TIME
17:00 - 17	:45	Coffee break & Poster Viewing (SECTION A)
17:45 - 18	•30	PLENARY LECTURE #2 – ROOM A
		Chairpersons: Nicolas Kalogerakis & Fabio Fava
ID 389		EMERGING OPPORTUNITIES OF NANOTECHNOLOGY AT THE WATER-
		ENERGY NEXUS Professor Pedro J.J. Alvarez
		Department of Civil & Environmental Engineering, Rice University, Houston, USA
18:30 – 20):30	SESSION - 2A: OIL SPILLS & MARINE POLLUTION – MITIGATION
10.00 20	•••	MEASURES - ROOM A
		Chairpersons: Daniele Daffonchio and Fabio Fava
ID 305	THE I	HYDROCARBON DEGRADATION POTENTIAL OF THE SEAWATER
		OBIOME IN THE RED SEA
		ire Michoud, Giuseppe Merlino, Stylianos Fodelianakis and <u>Daniele Daffonchio</u>
		bdullah University of Science and Technology (KAUST), Biological and Environmental Sciences and ering Division (BESE), Thuwal, Saudi Arabia
ID 385	_	EMEDIATION OF HYDROCARBON RELEASES IN DEEP SEA
22 000		eria Antoniou, Marios Daskalakis, Nikos Pasadakis and Nicolas Kalogerakis
		of Environmental Engineering, Technical University of Crete, Chania, Greece
ID 196		PILLS BIOREMEDIATION WITH NATIVE HYDROCARBON-DEGRADING
		ERIA: SPILLESS PROJECT
		la P. Mendes ¹ , Diogo A.M. Alexandrino ¹ , Maria Bôto ^{1,2} , Joana P. Fernandes ¹ , Filipa s ¹ , Hugo Ribeiro ¹ , Catarina Magalhães ^{1,2} , Sandra Ramos ^{1,3} , Maria F. Carvalho ¹ , C.
		a R. Almeida ¹ and Ana P. Mucha ¹
	¹ Interd	isciplinary Centre of Marine and Environ. Research, Univ. of Porto, Matosinhos, Portugal
		ty of Sciences, University of Porto, Rua do Campo Alegre 790, 4150-171 Porto, Portugal
ID 232		tte of Estuarine and Coastal Studies, University of Hull, Hull, HU6 7RX, UK OBIC BIOSTIMULATION OF BURIED MACONDO OIL: METAGENOMIC AND
ID 232		EOCHEMICAL ASSESSMENT OF A NEW RESPONSE APPROACH
		H. Pardue, Vijaikrishnah Elango, Olivia Bramlet, LeeAnn Fitch and Zachary Romaine
		Civil & Environmental Engineering, Louisiana State University, USA
ID 154		IMINARY ASSESSMENT OF MARINE ACTINOBACTERIAL DIVERSITY
		UND INDIAN NUCLEAR POWER PLANT (NPP) SITES AND ITS APPLICATION
		OREMEDIATION OF RADIONUCLIDES ah Sivaperumal ¹ , Kannan Kamala ² and Rajendran Rajaram ³
		an Sivaperumai ² , Kannan Kamaia ² and Kajendran Kajaram ² for Environmental Nuclear Research, SRM Institute of Science and Technology, India
		tment of Biotechnology, SRM Institute of Science and Technology, Kattankulathur, India
	³ Depar	tment of Marine Science, Bharathidasan University, Tiruchirappalli, India
ID 238		ONIZATION DYNAMICS OF MICROPLASTICS BY A MARINE MICROBIAL
		MUNITY AND TRASNFORMATION OF SORBED PCBs
	Anton	ella Rosato, Andrea Negroni, Fabio Fava and Giulio Zanaroli

ID 352	Dept. of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Italy THE URGENT NEED FOR Hg MONITORING IN GREEK COASTAL WATERS. IMPLEMENTATION OF WFD-MSFD AND EVALUATION OF GES.
	Olga Chalkiadaki, Theodora Paramana, Vasiliki Paraskevopoulou and Manos Dassenakis
	Lab of Environ. Chemistry, Dept of Chemistry, National and Kapodistrian University of Athens, Greece
ID 384	TEMPO-SPATIAL DYNAMICS OF MICRO AND MESOPLASTICS AND PAHS
	POLLUTION IN COASTAL ENVIRONMENTS
	Katerina Karkanorachaki, Sotiris Kiparissis, Georgina Calypso Kalogerakis, Evangelia
	Yiantzi, Elefteria Psillakis and Nicolas Kalogerakis
	School of Environmental Engineering, Technical University of Crete, Chania, Greece
18:30 - 20:	
	METALS – ROOM B
	Chairpersons: Eleni Papazoglou & Eleni Manousaki
ID 369	RHIZOSPHERE MICROBIOME OF BLACK POPLARS IN RESPONSE TO HEAVY
	METAL STRESS AND COMPOST AMENDMENT
	Castiglione Stefano ¹ , Guarino Francesco ¹ , Heinze Berthold ² and Cicatelli Angela ¹
	¹ Dept. of Chemistry and Biology "A. Zambelli", University of Salerno, Italy
ID 378	² Federal Research and Training Centre for Forests, Natural Hazards and Landscape, Austria CADMIUM PHYTOREMEDIATION OF CONTAMINATED AGRICULTURAL SOILS
10 376	USING VALUE-ADDED CROPS
	Eleni G. Papazoglou ¹ and Efthymia Alexopoulou ²
	¹ School of Agricultural Production, Infrastructure & Environ., Agricultural Univ. of Athens, Greece
	² Centre for Renewable Energy Sources and Saving, Pikermi, Attika, Greece
ID 318	PERENNIAL ENERGY CROPS IN CHEMOPHYTOSTABILIZATION PILOT TRIAL ON
	HEAVY METAL CONTAMINATED LAND.
	Elaine Jensen ¹ , Bill Perkins ² , Andy Brown ² , Peter Stanley ³ , Tom Williams ³ , Kate Rolt ¹ , Jacek
	Krzyżak ⁴ , Marta Pogrzeba ⁴ and Iain Donnison ¹
	¹ Institute of Biological, Environmental and Rural Sciences, Aberystwyth University, Wales, UK
	² Department of Geography and Earth Sciences, Aberystwyth University, Wales, UK
TD 240	³ Natural Resources Wales, Swansea, UK ⁴ Institute for Ecology of Industrial Areas, Katowice, Poland
ID 348	BACTERIA-DRIVEN REMOVAL OF SULFATES AND HEAVY METALS FROM
	ACIDIC HYDROMETALLURGICAL EFFLUENTS AND ALKALINE FLOTATION TAILINGS
	Witold Uhrynowski, Aleksandra Kurowska, Damian Kakietek and Lukasz Drewniak
	Lab of Environmental Pollution Analysis, Faculty of Biology, University of Warsaw, Warsaw, Poland
ID 229	PHOTOSYNTHESIS EFFICIENCY OF MISCANTHUS SEED BASED HYBRIDS GROWN
10 22	ON HEAVY METAL CONTAMINATED LAND
	Szymon Rusinowski ¹ , Jacek Krzyżak ¹ , John Clifton-Brown ² , Jon Paul McCalmont ² , Andreas
	Kiesel ³ , Anja Mangold ³ , Michal Mos ⁴ and Marta Pogrzeba ¹
	¹ Institute for Ecology of Industrial Areas, Katowice, Poland
	² Institute of Biological, Environmental and Rural Sciences (IBERS), Aberystwyth University, UK
	³ Department Biobased Products and Energy Crop, University of Hohenheim, Stuttgart, Germany ⁴ Terravesta Ltd., Cedar Farm, Main Street, South Carlton, Lincoln, LN1 2RH UK
ID 271	PERSPECTIVES OF EXOTIC WOODY PLANT IMPLEMENTATION IN
10 2/1	PHYTOREMEDIATION OF TOXIC ELEMENTS IN INDUSTRIAL CITIES OF
	TEMPERATE CLIMATE ZONES
	Svetlana V. Gorelova ¹ , M.V. Frontasyeva ² , S.M. Lyapunov ³ , A.V. Gorbunov ³ and O.I. Okina ³
	¹ Department of Biology, Natural Sciences Institute, Tula State University, Tula, Russia
	² Department of Neutron Activation Analysis and Applied Research, Frank Laboratory of Neutron Physics,
	Joint Institute for Nuclear Research, Dubna, Russia
TD 050	³ Laboratory of Chemical and Analytical Researches, Geological Iinstitute of RAS, Moscow, Russia
ID 272	PERSPECTIVES OF USING C-4 - PLANTS FOR PHYTOREMEDIATION OF
	INDUSTRIAL SOILS CONTAMINATED WITH HEAVY METALS
	Svetlana Gorelova ¹ , Marina Frontasyeva ² , Anatoliy Gorbunov ³ and Sergey Lyapunov ³
	¹ Department of Biology, Natural Sciences Institute, Tula State University, Tula, Russia ² Department of Neutron Activation Analysis and Applied Research, Frank Laboratory of Neutron Physics,
	Joint Institute for Nuclear Research, Dubna, Russia
	³ Laboratory of Chemical and Analytical Researches, Geological linstitute of RAS, Moscow, Russia

ID 141	COPPER PHYTOREMEDIATION POTENTIAL OF NATIVE PLANT SPECIES
	GROWING IN THE MINE POLLUTED AREAS OF SOUTH ARMENIA
	Ghazaryan Karen, Antonyan Susanna and Movsesyan Hasmik
10.20 20	Chair of Ecology and Nature Protection, Faculty of Biology, Yerevan State University, Republic of Armenia
18:30 – 20:	
	OIL, PETROCHEMICALS AND PAHS – ROOM C
ID 252	Chairpersons: Andreas Loibner & Maria Nikolopoulou
ID 372	A PILOT STUDY OF LANDFARMING APPLICATION TO A DIESEL-CONTAMINATED
	SOIL Maria Nikolopoulou ¹ , K. Marakis ¹ , G. Mamakos ¹ , N. Pasadakis ² and Nicolas Kalogerakis ¹
	¹ School of Environmental Engineering, Technical University of Crete, Chania, Greece
	² School of Mineral Resources Engineering, Technical University of Crete, Chania, Greece
ID 222	EVALUATION OF BIOAUGMENTATION AND BIOSTIMULATION IN DIESEL-
10 222	CONTAMINATED SOIL MICROCOSMS
	Francesca Bosco ¹ , Annalisa Casale ¹ , <u>Fulvia Chiampo</u> ¹ and Alberto Godio ²
	¹ Applied Science and Technology Department - DISAT, Politecnico di Torino, Italy
	² Department of Environment, Land and Infrastructure Engineering - DIATI, Politecnico di Torino, Italy
ID 293	BACTERIAL COMMUNITY RESPONSES DURING BIOAUGMENTATION OF SOIL
	CONTAMINATED WITH PETROLEUM HYDROCARBONS
	Magdalena Pacwa-Płociniczak, Joanna Czapla, Tomasz Płociniczak, Paulina Biniecka, Kinga
	Bondarczuk and Zofia Piotrowska-Seget
	University of Silesia in Katowice, Department of Microbiology, Katowice, Poland
ID 247	ENHANCING PHENANTHRENE BIODEGRADATION BY ADDING ORGANIC
	AMENDMENTS IN SOIL
	Victor T. Omoni and Kirk T. Semple
ID 331	Lancaster Environment Centre, Lancaster University, Lancaster, UK VALORISATION OF SEWAGE SLUDGE DIGESTATE FOR THE REMEDIATION OF
ID 331	WEATHERED TPH CONTAMINATED SOILS – COMPOSTING, BIOSLURRY
	TREATMENT AND BACTERIA IMMOBILIZATION ON BIOCHAR
	Anna Gielnik ^{1,2,3} , Yoan Pechaud ¹ , David Huguenot ¹ , Giovanni Esposito ² , Gilles Guibaud ³ and
	Eric D. van Hullebusch ^{1,4}
	¹ Université Paris-Est, Laboratoire Géomatériaux et Environnement (LGE), UPEM, Marne-la-Vallée, France
	² Dept of Civil and Mechanical Engineering, University of Cassino and Southern Lazio, Cassino, FR, Italy
	³ Université de Limoges, Groupement de Recherche Eau Sol Environnement, Limoges, France
TD 001	⁴ IHE Delft Institute for Water Education, P.O. Box 3015, 2601 DA, Delft, The Netherlands
ID 221	Pseudomonas kunmingensis strain BUN14: AN EFFICIENT HYDROCARBON-DEGRADING
	BACTERIUM ISOLATED FROM A PETROLEUM CONTAMINATED SITE Maura Elmobiaubile Habibu Aliyusa Simona Cannalla Vagmina Saviasi Mahamad
	Mouna Elmahjoubi ^{1,2} , Habibu Aliyu ^{3,4} , Simone Cappello ⁵ , Yasmine Souissi ¹ , Mohamed Neifar ¹ , Atef Jaouani ⁶ , Don A. Cowan ⁴ and Ameur Cherif ¹
	¹ Univ. Manouba, ISBST, BVBGR-LR11ES31, Biotechpole SidiThabet, Ariana, Tunisia
	² Faculty of Science of Bizerte, University of Carthage, Zarzouna, Bizerte, Tunisia
	³ Section II: Technical Biology, Institute of Process engineering in Life Science, Germany
	⁴ Centre for Microbial Ecology and Genomics, University of Pretoria, Pretoria, South Africa
	⁵ Istituto per l'Ambiente Marino Costiero (IAMC)-CNR of Messina. Sp. San Raineri, Messina, Italy
TD 440	⁶ Laboratory of Microorganisms and Active Biomolecules, University of Tunis El Manar, Tunisia
ID 142	IMPROVEMENT OF HYDROCARBONS POLLUTED SOIL BIOREMEDIATION BY
	MEANS OF HELPING OF COMPOST <u>José Villaseñor</u> ¹ , Carmen M. Fernández ¹ and Mercedes García-Muñoz ²
	¹ Chemical Engineering Department, Research Institute for Chemical and Environmental Technologies
	(ITQUIMA), University of Castilla La Mancha UCLM, 13071 Ciudad Real, Spain
	² Gestión de Residuos Manchegos S.L. (GESREMAN), Madridejos (Toledo), Spain
ID 337	POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) BIOREMEDIATION
	EMPLOYING Cyperus brevifolius AND BACTERIAL CONSORTIA
	Hemen Deka ¹ , Madhusmita Dihingia ² , Supriyo Sen ³ , Jiumoni Lahkar ⁴ and Jyotismita Das ⁵
	Department of Botany, Gauhati University, Guwahati, Assam, India
	² Life Sciences Division, Institute of Advanced Study in Science and Technology, Guwahati, Assam, India
	³ Schools of Life Sciences, Assam Don Bosco University, Tepesia, Sonapur, Assam, India
	⁴ CSIR-North East Institute of Science & Technology, Jorhat, Assam, India ⁵ Department of Zoology, Nowgong College, Nagaon, Assam, India

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TUESD.	AY, JU	NE 20 ⁻¹¹ , 2018
8:30 - 9	:15	PLENARY LECTURE #3 – ROOM A
		Chairpersons: Nicolas Kalogerakis & Fabio Fava
ID 387		CHALLENGES IN GROUNDWATER REMEDIATION – COMBINED
		TREATMENT PROCESSES
		Professor Brent E. Sleep
		Dept of Civil & Mineral Engineering, University of Toronto, Toronto, ON, Canada
9:15 - 10	0.45	SESSION - 3A: GROUNDWATER REMEDIATION / REGROUND FINAL PROJECT
7.15 10	J. 40	CONFERENCE – ROOM A
		Chairpersons: Brent E. Sleep and Marco Petrangeli Papini
	REGR	COUND: RECLAMATION OF TOXIC METAL CONTAMINATED AQUIFERS USING
ID 126		OXIDE NANOPARTICLES
(Keynote)		Mohammadian, Beate Krok and R. Meckenstock (on behalf of REGROUND
	Conso	
		Centre, University of Duisburg-Essen, Germany
ID 102		EDIATING 1,2-DP CONTAMINATED GROUNDWATER IN LOW-PERMEABILITY
	MEDI	A USING MICRO-SCALE ZVI AND ORGANIC CARBON AMENDMENT
		to Leombruni ¹ , Mueller Michael ¹ , Linda Collina ² and Mario Sunseri ²
		yChem, Philadelphia, PA, USA ² S.G.M. Geologia ed Ambiente srl, Ferrara - Italy
ID 165		INDWATER CIRCULATION WELL TECHNOLOGY (IEG-GCW®) FOR
	ENHA	NCED NATURAL ATTENUATION OF TCE AND PCE
	Marin	a Badia-Fabregat ¹ , Irene Jubany ¹ , Francesc Travesa ² , Pilar Centrich ² , Roser Centrich ² ,
	Eduar	d J. Alesi ³ , Melanie Esslinger ³ , Marcel Alesi ³ , Gert Rehner ³ , Pavan Laxmipathy ⁴ , Andres
	Abad (Gonzalez ⁵ , Aron Kneer ⁵ and Britta Nestler ^{4,5}
		at-Fundació CTM Centre Tecnològic, Manresa, Spain ² Hidronit Medioambiente S.L., Barcelona, Spain
		echnologie GmbH, Gruibingen, Germany
		ruhe Institute of Technology, Institute of Applied Materials (IAM-CMS), Karlsruhe, Germany
ID 225		tte of Digital Materials Science, University of Applied Science, Karlsruhe, Germany
ID 237		TU BARRIER OF IRON OXIDE NANOPARTICLES FOR RECLAMATION OF
		JNDWATER POLLUTED WITH ARSENIC (ASTURIAS, SPAIN)
		Otaegi ¹ , <u>Ekain Cagigal¹</u> , Sadjad Mohammadian ² , Andreas Fritzsche ³ , Tiziana Tosco ⁴ and Meckenstock ²
		on of Sustainable Construction, TECNALIA Research & Innovation, Spain
		m Centre, University Duisburg-Essen, Germany
		t für Geowissenschaften LS Hydrogeologie, Friedrich-Schiller-Universität Jena, Germany
		imento di Ingegneria dell'Ambiente, del Territorio e delle Infrastrutture, Politecnico di Torino, Italy
ID 241		NCING IN SITU BIOREMEDIATION BY INJECTION OF COLLOIDAL
		VATED CARBON FOR THE REMEDIATION OF A CHLORINATED SOLVENT
	PLUM	Œ
	Marco	Petrangeli Papini ¹ , Firoozeh Arjmand ¹ , Paolo Ciampi ¹ , Carlo Esposito ¹ , Jeremy
		ingl ² , Marcello Carboni ² , Paola Goria ² , Simona Rossetti ³ , Bruna Matturro ³ , M. Bacchi ⁴
		Foglietto ⁴
		rsity of Rome "La Sapienza", Italy ² Regenesis, Ltd., Europe ³ IRSA- CNR, Monterotondo, Italy
		Ferroviaria Italiana, RFI, Italy
9:15 - 10	0:45	SESSION – 3B: INNOVATIVE APPROACHES AND TOOLS FOR MONITORING
		AND BIOREMEDIATION – ROOM B
		Chairpersons: Danny Reible & Harrison I Atagana
ID 113	INTE	GRATING MICROBIAL BIOMASS. COMPOSITION AND FUNCTION TO DISCERN

THE LEVEL OF ANTHROPOGENIC ACTIVITY IN A RIVER ECOSYSTEM

CONTAMINATED AQUIFER BY DNA STABLE ISOTOPE PROBING

Kailingli Liao^{1,2}, Yaohui Bai ¹, Yang Huo ^{1,2}, Zhiyu Jian¹, Wanchao Hu^{1,2}, Chen Zhao¹ and

¹ Key Laboratory of Drinking Water Science and Technology, Research Center for Eco-Environmental Sciences, CAS, Beijing, China ² University of Chinese Academy of Sciences, Beijing, China

IDENTIFICATION OF KEY HYPOXIC TOLUENE DEGRADERS IN A SHALLOW BTEX-

Jiuhui Qu¹

ID 128

<u>Andras Tancsics</u>¹, Anna Róza Szalay², Milan Farkas¹, Tibor Benedek¹, Sandor Szoboszlay³, Istvan Szabo³ and Tillmann Lueders²

¹Regional University Center of Excellence in Environmental Industry, Szent István University, Hungary

²Institute of Groundwater Ecology, Helmholtz Zentrum München, Germany

³Department of Environmental Safety and Ecotoxicology, Szent István University, Hungary

ID 156
37Cl- AND 13C-COMPOUND SPECIFIC ISOTOPE ANALYSIS AND MOLECULAR TOOLS
TO MONITOR CHLOROBENZENE BIODEGRADATION

<u>Tatiana Stella</u>¹, Andrea Franzetti¹, Francesca de Ferra², Ilaria Pietrini², Giovanna Carpani², Orfan Shouakar-Stash^{3,4}, Ramon Aravena³, Luca Alberti⁵ and Massimo Marchesi⁵

¹ Dept of Earth and Environmental Sciences, University of Milano-Bicocca, Italy

² Research Center for Non-Conventional Energy, ENI Institute for Environmental Technologies, Italy

³ Dept of Earth and Environmental Sciences, University of Waterloo, Canada ⁴ Isotope Tracer Technologies Inc., Waterloo, Canada ⁵ Dept of Civil and Environmental Engineering, Politecnico di Milano, Italy

ID 176
IMPROVED TOOLS AND METHODOLOGIES FOR EVALUATING THE LINK OF STORMWATER METAL RELEASE TO SEDIMENT RECONTAMINATION

Ilektra Drygiannaki¹, Balaji Rao¹, Magdalena Rakowska¹, Danny Reible¹, Allen Burton ², Bart Chadwick³, G. Rosen³, Molly Colvin³, Robert Pitt⁴, Eric Strecker⁵, B. Steets⁵ and Megan Otto⁵

Texas Tech University, 2500 Broadway, Lubbock, TX, USA

Linivarity of Michigan, 500 S. State St. App. Arbor, MI, USA, 3 US News SDAWAR, Son Diogo, CA, USA

² University of Michigan, 500 S State St, Ann Arbor, MI, USA ³ US Navy SPAWAR, San Diego, CA, USA ⁴ University of Alabama, Ret., Tuscaloosa, AL, USA ⁵ Geosyntec Consultants, USA

Halomonas spp AND Psychrobacter aquaticus ARE PROMISING SPECIES FOR DESIGN OF HALOTOLERANT BIOANODES COUPLING TO SALINE WASTEWATER TREATMENT Refka Askri¹, Habib Chouchane¹, Luc Etchevery², Mohamed Neifar¹, Hanen Cherif¹, Ahmed Slaheddine Masmoudi¹, Federico Aulenta³, Benjamin Erable² and Ameur Cherif^{1*}

¹Univ. Manouba, ISBST, BVBGR-LR11ES31, Biotechpole Sidi Thabet, 2020, Ariana, Tunisia.

²Laboratoire de Génie Chimique CNRS - Université de Toulouse (INPT), Toulouse, France

³Water Research Institute (IRSA), National Research Council (CNR), Italy

ID 333 CHARACTERIZATION AND BIOREMEDIATION OF SEDIMENTED FIBER ORIGINATING FROM PULP AND PAPER INDUSTRY

Marja R.T. Palmroth¹, Marika Kokko¹, Noora Lindroos², Juho Mansikkamäki², Pritha Chatterjee¹ and Jukka Rintala¹

¹ Tampere University of Technology, Laboratory of Chemistry and Bioengineering, Tampere, Finland ² Ramboll Finland Oy, Tampere, Finland

9:15 - 10:45 SESSION – 3C: EMERGING CONTAMINANTS IN SOILS, SEDIMENTS AND GROUNDWATER – ROOM C
Chairpersons: Maria Gavrilescu and Simone Cappello

ID 371 NEW INSIGTS ON THE BIODEGRADATION OF EMERGING WATER

MICROPOLLUTANTS: CASE STUDY WITH CARBAMAZEPINE <u>Lidia Favier</u>¹, Céline Le Duc¹, Maria Gavrilescu², Ildikó Fekete-Kertész³, Adrian Augustyniak⁴, Mónika Molnár³ and Abdeltif Amrane¹

¹Univ Rennes, Ecole Nationale Supérieure de Chimie de Rennes, Rennes, France

² Dept. of Environmental Engineering and Management, "Gheorghe Asachi" TU-Iasi, Romania

³ Dept. of Applied Biotechnology and Food Science, Budapest Univ. of Technology and Economics, Hungary

⁴ Dept. of Immunology, Microbiology, and Phys. Chemistry, West Pomeranian Univ. of Technology, Poland

ID 167 MICROBIAL REMOVAL OF PHARMACEUTICAL RESIDUES IN THE HYPORHEIC ZONE

Cyrus Rutere¹, Malte Posselt² and Marcus A. Horn^{1,3}

¹ Department of Ecological Microbiology, University of Bayreuth, Germany

² Department of Environmental Science and Analytical Chemistry, Stockholm University, Sweden

³ Institute of Microbiology, Leibniz University Hannover, Germany

ID 184 COMBINED CHEMICAL AND BIOLOGICAL OXIDATION FOR THE REMOVAL OF THIAMETHOXAM

Esther Gomez-Herrero¹, Hafida ElHadi-Lebik^{2,3}, Montserrat Tobajas¹, Hamid Ait-Amar², Juan J. Rodriguez¹ and Angel F. Mohedano¹

¹ Chemical Engineering, Universidad Autonoma de Madrid (UAM), Madrid, Spain

² LSGPI, Faculté de Génie Mécanique et de Génie des Procédés, Université des Sciences et de la Technologie Houari Boumediene (USTHB), Bab-Ezzouar, Algeria

³Unité de Développement des Equipements Solaires, UDES, Centre de Développement des Energies Renouvelables, Tipaza, Algeria

8

ID 197 BIODEGRADATION OF PAROXETINE AND BEZAFIBRATE BY BACTERIA ISOLATED FROM ESTUARINE ENVIRONMENT

<u>Joana P. Fernandes</u>^{1,2}, Patrícia Duarte^{1,2}, C. Marisa R. Almeida¹, M. Fátima Carvalho¹ and Ana P. Mucha¹

¹CIMAR/CIIMAR, Universidade do Porto, Matosinhos, Portugal

²Instituto Ciências Biomédicas Abel Salazar - Universidade do Porto, Porto, Portugal

ID 260 USING MICROMYCETES FOR ENVIRONMENTAL SERVICES: WHITE LIVER SYSTEM FOR PHARMACEUTICAL BIOREMEDIATION

Maranda Esterhuizen-Londt¹, and Stephan Pflugmacher^{1,2,3}

¹ Ecotoxicology in an Urban Environment, Ecosystems and Environmental Research Programme, Faculty of Biological and Environmental Sciences, University of Helsinki, Lahti, Finland

² Korea Inst. of Science & Technology Europe, Joint Lab of Applied Ecotoxicology, Saarbrücken, Germany

³ Helsinki Institute of Sustainability Science (HELSUS), University of Helsinki, Lahti, Finland

10:45 – 11:15 Coffee break & Poster Viewing (Section A)

11:15 – 13:15 SESSION - 4A: GROUNDWATER REMEDIATION / REGROUND FINAL PROJECT CONFERENCE – ROOM A

Chairpersons: Beate A. Krok and Sadjad Mohammadian

ID 103 ELS $^{\rm TM}$ MICROEMULSION – ITALIAN FIELD RESULTS OF EMULSIFIED LECITHIN-BASED SUBSTRATES USED AS ERD TREATMENT OF CHLORINATED SOLVENTS IN GROUNDWATER

Alberto Leombruni¹, Mueller Michael¹ and Federica Morlacchi²

¹ PeroxyChem, Philadelphia, PA USA ² Centro Assistenza Ecologica Srl, Ancona , Italy

ID 150 QUICK AND EASY TESTING SYSTEM FOR THE MOBILITY AND REACTIVITY OF COLLOIDAL IRON OXIDE NANOPARTICLES IN NATURAL SEDIMENTS—UPSCALING FROM LAB TO FIELD APPLICATION

Beate A. Krok, Sadjad Mohammadian, and Rainer U. Meckenstock

Biofilm Centre, University of Duisburg Essen, Gemany

ID 183 APPLICATION OF GOETHITE COLLOIDS FOR EFFICIENT REMOVAL OF ARSENIC IN CONTAMINATED GROUNDWATER

Daniela Montalvo and Erik Smolders

Department of Earth and Environmental Sciences, KU Leuven, Belgium

ID 187 BIOREMEDIATION OF LEAD-ZINC MINE-IMPACTED AQUIFERS USING MISCANTHUS-DERIVED BIOCHAR

Temilola Olanrewaju¹ and William Perkins²

¹ School of Geography and Environmental Sciences, Ulster University, UK

² Institute of Geography and Earth Sciences, Aberystwyth University, UK

ID 205 A NOVEL APPROACH TO CONTROL THE DEPOSITION AND FATE OF PARTICLES IN POROUS MEDIA FOR AN EFFECTIVE AQUIFER NANOREMEDIATION Carlo Bianco, Tiziana Tosco, Alberto Tiraferri and Rajandrea Sethi

Dept. of Environment, Land and Infrastructure Engineering, Politecnico di Torino, Italy

ID 206 A MODEL ASSISTED PROCEDURE TO SUPPORT THE DESIGN OF FIELD SCALE NANOREMEDIATION OF METAL CONTAMINATED AQUIFERS Tiziana Tosco, Carlo Bianco and Rajandrea Sethi

Dept. of Environment, Land and Infrastructure Engineering, Politecnico di Torino, Italy

AGING OF HUMIC ACID-COATED GOETHITE COLLOIDS AND THE EFFECT ON THEIR ECOTOXICITY AND AFFINITY FOR METAL(LOID) ADSORPTION Andreas Fritzsche¹, Marie Mollenkopf¹, Verónica Gonzáles-Andres², Maria Diez-Ortiz², Daniela Montalvo Grijalva³ and Kai Totsche¹

¹ Chair of Hydrogeology, Friedrich-Schiller-University Jena, Germany

² Human & Environmental Health & safety Division, LEITAT Technological Centre Barcelona, Spain

³ Department of Earth and Environmental Sciences, KU Leuven, Belgium

ID 399 DETOXIFICATION EFFICIENCY DURING BIOELECTROCHEMICAL TREATMENT OF GROUNDWATER CONTAMINATED BY CAHs: AN ECOTOXICOLOGICAL EVALUATION

Maria Teresa Palumbo¹, Agnese Lai², M. Mingazzini¹, Mauro Majone² and Federico Aulenta³

¹ Water Research Institute (IRSA-CNR), National Research Council, Brugherio (MB), Italy

² Department of Chemistry, Sapienza University of Rome, Rome, Italy

	³ Water Research Institute (IRSA-CNR), National Research Council, Monterotondo (RM), Italy
11:15 -	
11.10	ORGANIC CONTAMINANTS – ROOM B
	Chairpersons: Francesca Mapelli and Jaco Vangronsveld
ID 227	PLANT GROWTH PROMOTING BACTERIA: A PROMISING TOOL IN
10 221	PHYTODEPURATION OR A RISK FOR ANTIBIOTIC RESISTANCE SPREAD?
	Francesca Mapelli ¹ , Valentina Riva ¹ , Redouane Choukr-Allah ² , A. Rashed ³ and Sara Borin ¹
	¹ University of Milan, DeFENS, Italy. ² Hassan II Institut Agronomique et Veterinaire, Morocco
	³ National Water Research Center, Egypt
ID 281	BACTERIAL-ASSISTED PHYTOREMEDIATION TO COMPLEMENT IN SITU
	FLOATING LAYER REMOVAL FOR REMEDIATION OF FUEL OIL CONTAMINATED
	SOIL
	Panagiotis Gkorezis ^{1,2} , Jonathan Van Hamme ³ , A. Franzetti ⁴ , Jaco Vangronsveld ¹ , Sofie Thijs ¹
	¹ Hasselt University, Centre for Environmental Sciences Agoralaan, Diepenbeek, Belgium
	² PSMT Environmental Technologies, Lommel, Belgium ³ Thompson Rivers University, Dept of Biological Sciences, Kamloops, BC, Canada
	⁴ University of Milano-Bicocca, Dept of Environmental Sciences, Milano, Italy
ID 292	IMPROVEMENT OF PHYTOREMEDIATION OF AN AGED PETROLEUM
	HYDROCARBON-POLLUTED SOIL BY RHAMNOLIPID AND ENDOPHYTIC
	Rhodococcus erythropolis CDEL 254 STRAIN
	Tomasz Płociniczak, Natalia Ptaszek and Zofia Piotrowska-Seget
	University of Silesia in Katowice, Dept of Microbiology, Katowice, Poland
ID 295	SUSTAINABLE USE OF CONSTRUCTED WETLANDS FOR WASTEWATER
	TREATMENT AND REUSE IN SMALL COMMUNITIES
	Hassan Azaizeh ^{1,2} , Fayiz Sayed ¹ , Ammar Abou-kandil ¹ and Yoram Gerchman ³
	¹ Institute of Applied Research (Affiliated with University of Haifa), The Galilee Society, Shefa-Amr, Israel ² Tel Hai College, Dept of Environmental Science, Upper Galilee, Israel
	³ University of Haifa at Oranim, Tivon, Israel
ID 364	LONG TERM (2 YEARS) CONSTRUCTED WETLANDS TREATMENT OF COMBINED
	STORMWATER, SEWAGE AND LIVESTOCK WASTEWATER IN REMOTE
	MOUNTAINOUS RURAL AGGLOMERATIONS
	<u>Diego Cicero-Fernández</u> ¹ , J. A. Expósito-Camargo ¹ , M. Peña-Fernández ¹ and B. Antízar-Ladislao ^{1,2,3}
	¹ Asociación RIA, Centro Mpal de Empresas de Camargo, Cantabria, Spain
	² Isle Utilities, Camelford House, London, UK ³ Infrastructure and Environment Research, School of Engineering, Univ. of Glasgow, UK
ID 152	ANGIOSPERM TYPE RESPONSE TO CRUDE BUNKER OIL CONTAMINATED WATER
10 132	BODY: USING THE LEAF AS A PHYTOREMEDIATION INDICATOR
	Po-Hsun, Cheng ¹ , Luyanda Ndelela ^{1,2} , Christoff Truter ³ , Anna-Maria Botha ³ and Paul Johan
	Oberholster ^{1,4}
	¹ CSIR Natural Resources and the Environment, Stellenbosch, South Africa
	² Dept of Zoology, University of Stellenbosch, Matieland, Stellenbosch, South Africa
	³ Dept of Genetics, University of Stellenbosch, Matieland, Stellenbosch, South Africa

⁴ Dept of Earth Science, University of Western Cape, Bellville, South Africa

ID 216 NITRATE REMOVAL BY PLANT BASED BIOREMEDIATION USING Utricularia aurea FROM EUTROPHIC LAKE OF THEERTHAMKARA, INDIA K. Usharani^{1,2} and K.V. Keerthi²

¹Dept of Environmental Sciences, Bharathiar University, TN, India²Dept of Environmental Science, Central University of Kerala, India

ID 117 PHYTOREMEDIATION AND RHIZOREMEDIATION POTENTIAL OF WEEDS AND THEIR ASSOCIATED MICROFLORA TO Pb IN OIL POLLUTED SOIL Bushra Rehman³, Tamoor Ul Hassan^{1,3} and Asghari Bano^{2,3}

¹Dept of Botany, Garden Campus Hazara University, Mansehra, Pakistan.

²Dept of Bio Sciences, University of Wah, Pakistan.

³Dept of Plant Sciences Quaid-i-Azam University, Islamabad, Pakistan

11:15 - 1	3:15 SESSION - 4C: EMERGING CONTAMINANTS IN SOILS, SEDIMENTS
	AND GROUNDWATER – ROOM C
	Chairpersons: Jong Moon Park & David B Levin
ID 324	NOVEL BIOACTIVE IONIC LIQUIDS – FROM SYNTHESIS TO ADVANCED FIELD
	STUDIES
	<u>Łukasz Chrzanowski</u>
	Institute of Chemical Technology and Engineering, Poznan University of Technology, Poznan, Poland
ID 170	ROLE OF UNCULTIVABLE BACTERIA IN SULFAMETHOXAZOLE DEGRADATION
	Ana C. Reis ^{1,2} , Ana Tskhvediani ² , B. A. Kolvenbach ² , Philippe F.X. Corvini ² and Olga C.
	Nunes ¹
	¹ Lab for Process Engineering, Environment, Biotechnology and Energy, Chemical Engineering Dept,
	University of Porto, Porto, Portugal ² Institute for Ecopreneurship, School of Life Sciences, FHNW, Muttenz, Switzerland
ID 186	PHYTOEXTRACTION OF ANTIDEPRESSANTS – A MODEL STUDY
10 100	Stanislav Smrček, Alena Grasserová, Nicollete Hatasová and Kateřina Kozielová
	Dept of Organic Chemistry, Faculty of Science, Charles University, Prague, Czech Republic
ID 188	ISOLATION AND CHARACTERIZATION OF MICROBIAL COMMUNITIES
	CAPABLE OF BIODEGRADING TWO HIGHLY PERSISTENT FLUORINATED
	FUNGICIDES
	<u>Diogo A. M. Alexandrino^{1,2}</u> , Ana P. Mucha ¹ , Filipa Silva ³ , Andreia Ribeiro ³ , C. Marisa R.
	Almeida ¹ and Maria F. Carvalho ¹
	¹ CIIMAR – Interdisciplinary Centre of Marine and Environmental Research, University of Porto, Portugal
	² Institute of Biomedical Sciences Abel Salazar, University of Porto, Portugal
ID 200	³ Faculty of Sciences, University of Porto, Portugal
ID 290	2,4-DINITROANISOLE (DNAN) DEGRADATION MEDIATED BY Fe(III)-REDUCING,
	PHOTOSYNTHETIC, AND FERMENTATIVE BACTERIA <u>Jolanta Niedźwiecka</u> and Kevin Finneran
	Dept of Environmental Engineering and Earth Sciences, Clemson University, USA
ID 261	USING THE ENVIRONMENTAL SERVICE OF MACROPHYTES – GREEN LIVER
10 201	SYSTEMS TO REMEDIATE TOXICANTS FROM WATER
	Stephan Pflugmacher ^{1,2,3} and Maranda Esterhuizen-Londt ¹
	¹ University of Helsinki, Lahti, Finland ² Helsinki Inst. of Sustainable Sciences (HELSUS), Helsinki,
	Finland
	³ Korean Institute of Science and Technology (KIST Europe), Saarbruecken, Germany
ID 155	MICROORGANISMS AND ARSENIC: EXPLOITATION OF MICROBIALLY-
	MEDIATED PROCESSES FOR WATER TREATMENT
	Simona Crognale ¹ , Stefano Amalfitano ¹ , Barbara Casentini ¹ , Stefano Fazi ¹ , Maurizio
	Petruccioli ² and Simona Rossetti ¹
	¹ Water Research Institute, National Research Council (IRSA - CNR), Italy ² Dept of Innovation in Agroforestry and Biological Systems (DIBAF), University of Tuscia, Viterbo, Italy
ID 168	FIRST INSIGHT INTO METABOLIC PATHWAY OF RITALINIC ACID IN THE
1D 100	CONTEXT OF SEWAGE EPIDEMIOLOGY
	Marta Wozniak-Karczewska ¹ , Grzegorz Framski ² , Daniel Baranowski ² , Monika Cvancarová
	Philippe F. X. Corvini ³ and Lukasz Chrzanowski ¹
	¹ Institute of Chemical Technology and Engineering, Poznan University of Technology, Poznan, Poland
	² Polish Academy of Sciences, Poznan, Poland
	³ Institute for Ecopreneurship, School of Life Sciences, FNNW, Muttenz, Switzerland

13:15 - 14:15 LUNCH (Minoa Palace Hotel)

14:15 - 17:00 FREE TIME (Posters change time A to B)

17:00 - 17	7:45	Coffee break & Poster Viewing (Section B)
17:45 - 18	3:30	PLENARY LECTURE #4 – ROOM A Chairpersons: Philippe Corvini & Nicolas Kalogerakis
ID 164		BRIDGE BETWEEN PHYSICOCHEMICAL TREATMENT AND
10 104		BIOREMEDIATION: SOIL WASHING
		Professor Jong Moon Park
		Dept. of Chemical Engineering, School of Environmental Science and Engineering, Pohang University of Science and Technology, South Korea
18:30 - 20	:30	SESSION – 5A: BIOREMEDIATION OF CHLORINATED COMPOUNDS –
		ROOM A
		Chairpersons: Cajthaml Tomáš & Katerina Demnerova
ID 138		ITU ELECTROBIOREMEDIATION OF SOIL POLLUTED WITH ORGANO-
		ORINATED COMPOUNDS a Barba, Mireya Carvela, <u>José Villaseñor</u> , Manuel A. Rodrigo and Pablo Cañizares
		ical Engineering Dept, Research Institute for Chemical and Environmental Technologies (ITQUIMA),
		ersity of Castilla La Mancha, Ciudad Real, Spain
ID 223		CHLOROETHENE DEGRADATION BY COMBINING DEHALOCOCCOIDES
		H ZEROVALENT IRON – TOXIC AND SYNERGISTIC EFFECTS
		othea Summer, Philipp Schöftner; Bernhard Wimmer and <u>Thomas G. Reichenauer</u>
ID 102		Austrian Institute of Technology, Center for Energy, Austria
ID 193		ZOSPHERE MICROBIAL COMMUNITY OF POPLAR PLANTS INVOLVED IN PHYTO-ASSISTED BIOREMEDIATION
		<u>a Barra Caracciolo¹, Paola Grenni¹, Martina Cardoni¹, Martina Di Lenola¹, Claudia</u>
		panale², Gian Luigi Garbini¹, Giorgia Aimola², V. Felice Uricchio², M. Fernandez
		ez ³ and Valeria Ancona ²
		onal Research Council, Water Research Institute, Monterotondo (RM), Italy
		onal Research Council, Water Research Institute, Bari (BA), Italy
ID 242		sejo Superior de Investigaciones Científicas (CSIC) Zadin Experimental Station, Granada, Spain EW PROCESS FOR THE <i>IN SITU</i> REMEDIATION OF AGED LOW-K DNAPL
ID 242		RCE ZONE BY ENHANCED MOBILIZATION AND BIOREMEDIATION
		co Petrangeli Papini ¹ , Mauro Majone ¹ , Lucia Pierro ¹ , Marco Sagliaschi ² , Salvatore
		to ² , Eduard Alesi ³ , Ernst Bartsch ³ , Simona Rossetti ⁴ and Bruna Matturro ⁴
	1 Univ	versity of Rome "La Sapienza", Italy ² SERSYS AMBIENTE S.r.l., Torino, Italy
ID 222		Technologie GmbH, Gruibingen, Germany ⁴ IRSA- CNR, Monterotondo, Italy
ID 332		BIODEGRADATION BY PLEUROTUS OSTREATUS: FROM LABORATORY TO L APPLICATIONS
		L APPLICATIONS <u>haml Tomáš^{1,2},</u> Šrédlová Kamila ^{1,2} Linhartová Lucie ^{1,2} , Tatiana Stella ³ and Odřej
	<u>Caju</u> Lhot	 :
		itute of Microbiology, Czech Academy of Sciences, Prague 4, Czech Republic
		itute for Environmental Studies, Faculty of Science, Charles University, Prague 2, Czech Republic
	³ Dep	t of Earth and Environmental Sciences (DISAT), University of Milano, Milano, Italy
		KONTA a.s., Prague 5, Czech Republic
ID 334		CURRENCE OF GENES RESPONSIBLE FOR PCDDs/Fs REMOVAL FROM SOIL
		THIER TRANSLOCATION TO ABOVEGROUND PARTS OF CUCURBITS dalena Urbaniak ^{1,2} , I. Gagała ¹ , Anna Wyrwicka ³ , E. Mierzejewska ² and Marek
		ński ⁴
		opean Regional Centre for Ecohydrology of the Polish Academy of Sciences, Lodz, Poland
		t of Applied Ecology, Faculty of Biology and Environmental Protection, University of Lodz, Lodz,
	Polan	
		t of Plant Physiology and Biochemistry, University of Lodz, Lodz, Poland er Institute of Occupational Medicine, Lodz, Poland
ID 346		REMEDIATION OF SOILS CONTAMINATED WITH TOXAPHENE:
12 0 10		ROCOSMS AND PILOT SCALE STUDY
		Arbeli, Angelica Rojas, Ivan Prieto, Johan Saenz, Fabio Roldan
	Unida	ad de Saneamiento y Biotecnología Ambiental (USBA), Departamento de Biología, Facultad de
	Ciona	rias Pontificia Universidad Inversiona Regeté D.C. Colembia

18:30 - 19	
	PROCESSES – ROOM B
TD 404	Chairpersons: Katerina Spanoudaki & George Kapellos
ID 101	TOOLS FOR THE CALCULATION OF BIOREMEDIATION TIMES
	Thomas Held
ID 120	Arcadis Germany GmbH, Germany FLOW AND REACTIVE TRANSPORT MODELLING OF A SITE CONTAMINATED
ID 129	WITH CHLORINATED HYDROCARBONS INCLUDING THE TRANSITION ZONE
	BETWEEN GROUND- AND SURFACE WATER
	Sonja Schröter, Wilfried Schneider and Hanna Kim
	Institute of water resources and water supply, Hamburg University of Technology, Germany
ID 131	EXPERIMENTAL DESIGN TO ASSESS THE DEGRADATION OF PETROLIZED
10 101	WASTE IN THE BIO-PILE ECO-TECHNOLOGY
	David Javier Castro Rodríguez, Omar Gutiérrez Benítez, Orlando Viera Ribot, José Reynol
	Poma Rodríguez, Dayana Rabassa Rabasa and Enmanuel Casals Pérez
	Centre of Environmental Studies of Cienfuegos, Cuba
ID 396	MATHEMATICAL MODELLING OF DEEP SEA OIL SPILLS INCORPORATING
	BIODEGRADATION KINETICS OF OIL DROPLETS
	Katerina Spanoudaki ¹ and Nicolas Kalogerakis ²
	¹ Institute of Applied and Computational Mathematics, FORTH, Heraklion, Crete, Greece
10.00	² School of Environmental Engineering, Technical University of Crete, Chania, Greece
19:30 - 20	
TD 215	Chairpersons: Anna Potysz & Ioannis Ignatiadis
ID 317	BIOREMEDIATION OF HEXAVALENT CHROMIUM BY METHANE OXIDISING
	BACTERIA Salahaldaan Embaia Dhilim II. E. Candinan and Thomas I. Smith
	Salaheldeen Enbaia, Philip H. E. Gardiner and Thomas J. Smith Biomolecular Sciences Research Centre, Sheffield Hallam University, Sheffield, UK
ID 286	EVALUATION OF TOXICITY OF Cr(VI) ON CHROMIUM RESISTANT BACTERIUM
10 200	Bacillus clausii CRA-1 BY FLOW CYTOMETRY
	Aishvarya Gautam and Radha Rani
	Dept of Biotechnology, Motilal Nehru National Institute of Technology, Allahabad, Uttar Pradesh, India.
ID 201	SELENIUM VOLATILIZATION BY Pseudomonas.sp AND ITS POTENTIAL IN
	BIOREMEDIATION AND RESOURCE RECOVERY
	Ying Liu ^{1,2} , Andreas Schäffer ² and Markus Lenz ¹
	¹ Institute for Ecopreneurship, School of Life Sciences, FHNW, Switzerland
	² Institute for Environmental Research (Biology V), RWTH Aachen University, Germany
ID 351	BIOMONITORING OF DIATOMS AS SENSITIVE INDICATORS OF HEAVY METALS
	POLLUTION
	Lusine Hambaryan ^{1,2}
	¹ Institute of Hydroecology and Ichthyology of the Scientific Centre of Zoology and Hydroecology of NAS,
ID 282	Republic of Armenia ² Department of Ecology, Yerevan State University, Republic of Armenia PHYTOEXTRACTION OF CADMIUM IN AGRICULTURAL LAND USING BAST
ID 202	FIBRE CROPS IN SOUTHERN CHINA
	Yuan Guo, Hui Wang, Caisheng Qiu, Songhua Long, Dongmei Hao and Yufu Wang
	Institute of Bast Fiber Crops and Center of Southern Economic Crops, Chinese Academy of Agricultural
	Sciences, China
18:30 - 20	30 SESSION – 5C: BIOREACTOR TECHNOLOGIES FOR EX-SITU REMEDIATION
	- ROOM C
	Chairpersons: Mohamed Blaghen & Simona Di Gregorio
ID 230	THE BIORESNOVA PROJECT: BIO-TECHNOLOGIES AND SMART PROCESS-
(Keynote)	ENGINEERING FOR THE RECOVERY AND VALORISATION OF CONTAMINATED
	SOILS AND SEDIMENTS
	Simona Di Gregorio
ID 256	Department of Biology, University of Pisa, Italy
ID 276	POROUS MEDIA ANAEROBIC BIOREACTORS FOR BIOREMEDIATION OF BTEX-
	CONTAMINATED GROUNDWATER Lohn H. Bondyo, Loglio Binkin and Viioikrichnah Flange
	John H. Pardue, Leslie Pipkin and Vijaikrishnah Elango Dept of Civil & Environmental Engineering, Louisiana State University, USA
	Dept of Civil & Environmental Engineering, Louisiana State University, USA

ID 263 EXOPOLYSACCHARIDES (EPS) AND BIOSURFACTANTS PRODUCTION AND ACTIVITY FROM SOME MOROOCCAN BACTERIA AS AFFECTED BY DIFFERENT CONDITIONS Y.D. Dah Dossounon, Ikram. Kamal, and Mohamed Blaghen Lab of Microbiology, Pharmacology, Biotechnology and Environment, Faculty of Sciences Ain-Chock, Casablanca, Morocco **ID 307** LANDFILL LEACHATE TREATMENT USING WHITE-ROT FUNGI IN ATTACHED **FORM** Alessandra Bardi ¹, Qiuyan Yuan ², Mofizul Islam², Giovanna Siracusa³, Ilaria Chicca³, Francesco Spennati 1, Valeria Tigini 4, Simona Di Gregorio 3, David B. Levin5, Giulio Petroni¹ and Giulio Munz ¹ ¹ Dept. of Civil and Environmental Engineering, University of Florence, Florence, Italy ² Dept. of Civil Engineering, Univ. of Manitoba, Winnipeg, Canada; ³ Dept. of Biology, University of Pisa, Italy ⁴ Dept. of Life Sciences and Systems Biology, University of Turin, Torino, Italy ⁵ Dept. of Biosystems Engineering, University of Manitoba, Winnipeg, Canada **ID 340** REMOVAL OF PESTICIDES IN BIOPURIFICATION SYSTEMS: RECENT ADVANCES ON THE EFFECTS OF CO-DISPOSAL OF ANTIBIOTIC-CONTAINING WASTEWATER Carlos E. Rodríguez-Rodríguez, Humberto Castillo-González, Alejandra Huete-Soto, Juan Carlos Cambronero-Heinrichs, Marta Pérez-Villanueva, Erika Fernández-Fernández, Susana Briceño-Guevara, Juan Salvador Chin-Pampillo, V. Castro-Gutiérrez and Mario Masís-Mora Centro de Investigación en Contaminación Ambiental, Universidad de Costa Rica (UCR), San José, Costa **ID 326** EFFECTS OF CILIATES AND ROTIFERS ON FUNGAL DEGRADATION OF NATURAL TANNINS: BATCH EXPERIMENTS WITH TARA AND QUEBRACHO <u>Cristiana Sigona¹</u>, Alessandra Bardi², Francesco Spennati², Ylenia Ciummei¹, Alexey Potekhin³, Gualtiero Mori⁴, Simona Di Gregorio¹, Franco Verni¹, Giulio Munz² and Giulio ¹Dept. of Biology, University of Pisa, Pisa, Italy ²Dept. of Civil and Environmental engineering, University of Florence, Florence, Italy ³ Dept. of Biology, Saint.-Petersburg State University, Saint Petersburg, Russia ⁴CER2CO (Centro Ricerca Reflui Conciari), San Romano-San Miniato, Pisa, Italy **ID 328** BIOTECHNOLOGICAL REMOVAL OF Cr(VI) BY USING A MICROBIAL FUEL CELL

Papadopoulou¹ and Gerasimos Lyberatos^{1,2}

¹School of Chemical Engineering, National Technical University of Athens, Athens, Greece

(MFC) AND A PARTITIONED SEQUENCING BATCH REACTOR (SBR)

George Marios Lytras¹, Dimitra Chatzikonstantinou¹, Asimina Tremouli¹, Konstantina

²Institute of Chemical Engineering Sciences (ICE-HT), Platani, Patras, Greece

WEDNES	SDAY,	JUNE 27 TH , 2018
8:30 - 9:15		PLENARY LECTURE #5 – ROOM A
		Session Chairpersons: Nicolas Kalogerakis & Fabio Fava
ID 189		ECOLOGICAL CONCEPTS FOR ANAEROBIC DEGRADATION OF AROMATIC
		HYDROCARBONS IN GROUNDWATER AND OIL RESERVOIRS
		Professor Rainer U. Meckenstock
		University of Duisburg –Essen, Biofilm Center, Germany
9:15-10:	45	SESSION – 6A: WATER FOR AFRICA (EU projects overview) - ROOM A
		Chairpersons: Giulio Pattanaro and Dario Frascari
Intro-		a and the EU joining forces to tackle water-related R&I challenges: achievements and
duction	-	cted impacts of ongoing H2020 projects.
		o Pattanaro
ID 375		bean Commission, Executive Agency for SMEs (EASME), Unit B.2 H2020 Environment and Resources LDING THE AFRICA-EU INNOVATION ALLIANCE FOR WATER AND CLIMATE
ID 313		Wehn and Gaetano Casale
		Delft Institute for Water Education, the Netherlands
ID 376		WERED PROJECT FOR THE DEVELOPMENT OF A SUSTAINABLE WATER
	MAN	NAGEMENT SYSTEM IN AFRICAN AREAS AFFECTED BY FLUORIDE
		TAMINATION.
		higlieri ¹ and the FLOWERED Consortium ²
TD 224	¹ Univ	versity of Cagliari, Department of Chemical and Geological Sciences, Italy 2 www.floweredproject.org
ID 224		TEWATER TREATMENT AND EFFICIENT AGRICULTURAL REUSE IN EGYPT,
		ROCCO AND TUNISIA: THE MADFORWATER PROJECT o Frascari and Giulio Zanaroli
		of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Italy
09:15 - 1		SESSION – 6B: MICROALGAE APPLICATIONS – ROOM B
0,120 2		Chairpersons: Joan Garcia & Dimosthenis Sarigiannis
ID 256	TRE	ATMENT OF STILLAGE AND PRODUCTION OF Chlorococcum sp. RICH IN
(keynote)		BOHYDRATES WITHIN A BIOREFINERY
		nia J. Olguín, Sandra Báez, Anilú Mendoza, V. J. Hernández, and R. E. González-
	Porte	
ID 270		onmental Biotechnology Group, Institute of Ecology, Mexico
ID 279		PRODUCTS FROM WASTEWATER: DESIGN AND OPERATION OF A NEW RID PHOTOBIOREACTOR
		Garcia, Enrica Uggetti and M. Jesús García-Galán
		MA-Group of Environmental Engineering and Microbiology, Dept of Hydraulic, Maritime and
		onmental Engineering, Universitat Politècnica de Catalunya Barcelona Tech, Barcelona, Spain
ID 133	ANN	UAL PERFORMANCE OF HECTARE-SCALE WASTEWATER TREATMENT HIGH
		E ALGAL PONDS IN TEMPERATE NEW ZEALAND
		ert Craggs ¹ , Jason Park ¹ , Stephan Heubeck ¹ and Donna Sutherland ²
		onal Institute of Water and Atmospheric Research, Hamilton, New Zealand lers Ltd, Christchurch, New Zealand
ID 119		TO-EBPR SYSTEMS AS MEANS TO REDUCE THE AERATION NECESSITIES
10 11)		ING ENHANCED BIOLOGICAL PHOSPHOROUS REMOVAL
		ínia Carvalho, Elisabete Freitas, Paulo Silva, Joana Fradinho, Adrian Oehmen and Maria
	Reis	<u> </u>
	UCIE	BIO-REQUIMTE, Dept of Chemistry, Universidade NOVA de Lisboa, Caparica, Portugal
ID 381		ROALGAE BIOREACTORS FOR BIOGAS POLISHING AND PRODUCTION OF
		H QUALITY FERMENTATION SUBSTRATES
		giannis Dimosthenis 1,2, Vassou Michalis 1, Gypakis Antonios and Zarkadas Ioannis 1
		ronmental Engineering Lab, Dept of Chemical Engineering, Aristotle Univ. of Thessaloniki, Greece ronmental and Sanitary Engineering, Institute for Advanced Study (IUSS), Pavia, Italy
		eral Secretariat for Research and Technology, Ministry of Education, Res. and Rel. Affairs, Greece

09:15 - 1	0:45 SESSION - 6C: IN-SITU BIOREMEDIATION – ROOM C
	Chairpersons: Jochen Borris & Vicenç Martí Gregorio
ID 310	IMPACT OF THE PRESENCE OF A NATURAL BIOFILM ON MOBILITY AND
	REACTIVITY TOWARDS TETRACHLOROETHYLENE (PCE) OF NZVI USED FOR
	NANOREMEDIATION
	Crampon Marc, Hellal Jennifer, M. Caroline, M. Christophe, Wille Guillaume and O. Patrick
	Bureau de Recherches Géologiques et Minières BRGM, Orléans Cedex 02 – France
ID 200	NANO-BIO REMEDIATION: A COMBINATION OF NZVI PARTICLES AND
	CARBOXYMETHYL CELLULOSE ENHANCED BY ELECTRIC FIELD
	Vojtech Stejskal ^{1,2} , Kristýna Marková ¹ , J. Nosek ¹ , Miroslav Černík ¹ ; Petr Kvapil ² and
	Jaroslav Hrabal ³
	¹ Department of nanomaterials in natural sciences, Technical University of Liberec, Czech Republic
TD 204	² Photon Water Technology s.r.o., Czech Republic ³ Mega a.s., Czech Republic
ID 204	STUDY OF THE ELIMINATION OF PHOSPHATE AND NITRATE IN WATER BY
	USING IRON OXIDES NANOPARTICLES OBTAINED BY TOP TO DOWN APPROACH
	Vicenç Martí 1,2, José Antonio Benito ¹ , Irene Jubany ² , David Ribas ² , Rosanna Margalef-
	Marti ³ , Raul Carrey ³ , Neus Otero ^{3,4} and Albert Soler ³ ¹ Barcelona Research Center in Multiscale Science and Engineering-EEBE, Technical University of Catalonia
	(UPC), Barcelona, Spain ² Fundació CTM Centre Tecnològic, Manresa, Spain
	³ Grup de Mineralogia Aplicada i Geoquímica de Fluids, Facultat de Ciències de la Terra, Universitat de
	Barcelona (UB), Spain 4 Serra Hunter Fellowship, Generalitat de Catalunya
ID 159	MICROAEROBIC AND AEROBIC BTEX DEGRADING BIOFILM BACTERIA – POPULATION
	DYNAMICS IN PHYLOGENETIC AND FUNCTIONAL POINT OF VIEW
	<u>Tibor Benedek¹</u> , Flóra Szentgyörgyi ² , István Szabó ² , Balázs Kriszt ² and András Táncsics ¹
	Regional University Centre of Excellence in Environmental Industry, Szent István University, Hungary
	² Department of Environmental Safety and Ecotoxicology, Szent István University, Hungary
ID 182	REVEALING THE ROLE OF GLUCOSINOLATES IN PLANT DEFENSE RESPONSES
	AGAINST POLLUTION STRESS
	Mariam Betsiashvili ¹ , Christine Weber ² , Stefanie Bank ² and Ulrike Holzgrabe ²
	Genebank, Agricultural University of Georgia, Tbilisi, Georgia
TD 444	² Institute of Pharmacy and Food Chemistry, University of Wuerzburg, Wuerzburg, Germany
ID 212	COMPLEX APPROACH TO BIOREMEDIATION OF SOILS CONTAMINATED WITH
	ORGANIC CHEMICALS
	Galina K. Vasilyeva
	Institute of Physicochemical and Biological Problems in Soil Science RAS, Pushchino State Institute of Natural Science, Pushchino, Moscow region, Russia
00.15 - 1	0:45 SESSION – 6D: WASTEWATER TREATMENT – ROOM D
07.13 - 1	Chairpersons: Levantesi Caterina & Jungbae Kim
ID 322	HIGH SALINITY EFFECT ON THE METHANOGENIC MICROBIAL PERFORMANCE
10 322	TREATING LEATHER PICKLING WASTEWATER
	Joana Cassidy, B. Oliveira, <u>Catarina S.S. Oliveira</u> , C. Henriques, E. Freitas, Maria A.M. Reis
	UCIBIO, REQUIMTE, Depto de Química, Universidade Nova de Lisboa, Caparica, Portugal
ID 345	EFFECT OF REACTIVE BARRIERS FOR ARTIFICIAL AQUIFER RECHARGE ON THE
	PERSISTENCE OF NON-INDIGENOUS MICROORGANISMS OF HEALTH CONCERN
	AND ANTIBIOTIC RESISTANCE GENES
	Luprano Maria Laura ¹ , Stefano Amalfitano ¹ , Zoppini Annamaria ¹ , Maurizio Petruccioli ² ,
	Marco Melita ¹ , Cristina Valhondo ³ , Jesus Carrera ³ and Levantesi Caterina ¹
	¹ Water Research Institute National Research Council, Rome Italy
	² Dept for Innovation in Biological, Agro-food and Forest systems, University of Tuscia, Viterbo, Italy
	³ GHS (UPC-CSIC), Dept Geosciences, IDAEA, CSIC, Barcelona, Spain
ID 368	COMPARISON OF TWO AND ONE STAGE ANAEROBIC DIGESTERS FOR
	TREATMENT OF SLAUGHTERHOUSE WASTEWATERS
	A. Spyridonidis ^{1,2} , S. Antonoudis ¹ , C. Kivraki ¹ and K. Stamatelatou ^{1,2}
	¹ Dept of Environmental Engineering, Democritus University of Thrace, Xanthi, Greece
	² INVALOR: Research Infrastructure for Waste Valorization and Sustainable Management, Patras, Greece

ID 243 OLIVE MILL WASTEWATER VALORIZATION THROUGH POLYPHENOL ADSORPTION AND SUBSEQUENT ANAEROBIC DIGESTION Giorgia Rubertelli¹, Dario Frascari¹, Alessandro Ragini¹, Annarosa Sannino¹, Giacomo Tripodi¹, Atef Jaouani² and Davide Pinelli¹ ¹Dept. of Civil, Chemical, Environmental and Materials Engineering, University of Bologna, Italy ²Institut Supérieur des Sciences Biologiques Appliquées de Tunis, Université de Tunis El Manar, Tunisia **ID 180** EFFECT OF AERATION ON RECLAIMED WASTEWATER QUALITY IMPROVEMENT AND CLOGGING PREVENTION Hajar Benlouali¹, I. Karmal², M. Fallah², M.C. Harrouni¹, M. Hamdani² and R. Choukrallah¹ ¹ Hassan II Institute of Agronomy and Veterinary Medicine, Agadir, Morocco ² Ibn Zohr University, Faculty of Science, Agadir, Morocco 10:45 - 11:15 Coffee break & Poster Viewing (Section B) 11:15 - 13:15 SESSION – 7A: WATER FOR AFRICA (EU PROJECTS OVERVIEW) – ROOM A Chairpersons: Giulio Pattanaro and Giulio Zanaroli **ID 190** SELF-SUSTAINING CLEANING TECHNOLOGY FOR SAFE WATER SUPPLY AND MANAGEMENT IN RURAL AFRICAN AREAS –SAFE WATER AFRICA-Lothar Schäfer¹, Jochen Borris¹ and Bob Bond² ¹Fraunhofer Institute for Surface Engineering and Thin Films IST, Braunschweig, Germany ²Tshwane University of Technology, Pretoria, South Africa ID 191 INTERGRATED AQUACULTURED BASED ON SUSTAINABLE WATER RECIRCULATING SYSTEM FOR THE VICTORIA LAKE BASIN (VICINAQUA) Julian Mamo¹, Kyra Hoevenaars¹, Ephraim Gukelberger², Saadia Bouhadjar², Paw Petersen³, Susan Claire Adhiambo⁴, Joyce Okwara⁴, Robert Kinyua⁵ and Jan Hoinkis² ¹ AquaBioTech Group, Mosta, Malta ² Institute for Applied Research (IAF), Karlsruhe, Germany ³ OxyGuard Intl. A/S, Farum, Denmark ⁴ Dept of Agriculture livestock and fisheries, Kisumu, Kenya ⁵ Jomo Kenyatta University of Agriculture and Technology (JKUAT), Nairobi, Kenya **ID 106** THE WATERSPOUTT PROJECT: THE CHALLENGES OF TRANSDISCIPLINARITY G. Honor Fagan Social Science Institute Maynooth University (MUSSI), Co. Kildare, Ireland **ID 392** DAFNE: A DECISION ANALYTIC FRAMEWORK TO EXPLORE THE WATER-ENERGY-FOOD NEXUS IN AFRICAN TRANSBOUNDARY RIVER BASINS Paolo Burlando¹, Imasiku Nyambe², Dinis Juizo³, Eric Odada⁴, Gete Zeleke⁵, Jos Van Orshoven⁶, Scott Sinclair¹, Phoebe Koundouri⁷, Andrea Castelletti⁸, Caroline van Bers⁹, Jasminko Novak¹⁰ ¹ Institute of Environmental Engineering, ETH Zurich, Switzerland ² Integrated Water Resources Management Centre, University of Zambia, Lusaka, Zambia ³ Dept of Civil Engineering, Eduardo Modiane University, Maputo, Mozambique ⁴ African Collaboration Centre for Earth Science Systems, University of Nairobi, Kenya ⁵ Water and Land Resources Center, Addis Ababa, Ethiopia ⁶ Dept of Earth and Environmental Sciences, KU Leuven, Belgium ⁷ School of Economics, Athens University of Economics and Business, Athens, Greece ⁸ Dept of Electronics, Information, and Bioengineering, Politecnico di Milano, Italy ⁹ Institute of Environmental Systems Research, Osnabrück University, Germany ¹⁰ European Institute for Participatory Media, Berlin, Germany SESSION - 7B: MICROALGAE APPLICATIONS - ROOM B 11:15 - 13:15 Chairpersons: Eugenia J. Olguín & Edgardo Filippone **ID 280** REMOVAL OF PESTICIDES AND PRIORITY ORGANIC POLLUTANTS DURING MICROALGAE-BASED WASTEWATER TREATMENT M. Jesús García-Galán^{1*}, Enrica Uggetti¹, Luis S. Monllor-Alcaraz², M. Silvia Díaz-Cruz², Miren López de Alda², Joan Garcia¹ and Damià Barceló² ¹ GEMMA-Group of Environmental Engineering and Microbiology, Dept of Hydraulic, Maritime and Environmental Engineering, Universitat Politècnica de Catalunya Barcelona Tech, Barcelona, Spain ² Dept of Environmental Chemistry, IDAEA-CSIC, Barcelona, Spain **ID 287** BIOENERGETICS AS A TOOL TO MONITOR ENVIRONMENT RESTORATION-PHENOL BIODEGRADATION BY PHOTOSYNTHETIC MICROALGAE

Theocharis Nazos, Emmanouel Kokarakis, Eleni Poloniataki, Gerasimos Theodoros

Mastrokalos, Malamatenia Papavasileiou and Demetrios Ghanotakis

Dept of Chemistry, University of Crete, Heraklion, Crete, Greece

ID 160	LAB-SCALE TESTING OF OPERATION PARAMETERS FOR ALGAE BASED
	TREATMENT OF PIGGERY WASTEWATER
	<u>Francesca Marazzi</u> ¹ , Micol Bellucci ² , R. Fornaroli ¹ , Elena Ficara ² and Valeria Mezzanotte ¹
TD 445	¹ DISAT, Università degli studi di Milano-Bicocca, Italy ² DICA Politecnico di Milano, Italy
ID 145	POLYMERS PRODUCTION FROM CYANOBACTERIA CULTIVATED IN
	WASTEWATER: CURRENT STATUS, CHALLENGES AND FUTURE DIRECTIONS
	Dulce María Arias, Enrica Uggetti, Maria Jesus García and Joan García
ID 215	Dept of Civil and Environmental Eng, Universitat Politècnica de Catalunya Barcelona Tech, Barcelona, Spain DISINFECTION IN LAB-SCALE PHOTOBIOREACTORS FOR WASTEWATER
ID 215	TERTIARY TREATMENT
	Micol Bellucci ¹ , Francesca Marazzi ² , Luca Stefano Naddeo ² , Luciano Beneduce ³ , Elena Ficara ¹ and Valeria Mezzanotte ²
	Dept of Civil and Environmental Engineering, Technical University of Milan, Italy
	² DISAT, University of Milan-Bicocca, Italy
	³ Dept of the Science of Agriculture, Food and Environment, University of Foggia, Italy
ID 125	WASTEWATER TREATMENT PROCESS USING MICROALGAE TO OBTAIN
	RECLAIMED WATER, BIODIESEL AND ADDED VALUE PRODUCTS
	Carioca, J.O.B. ¹ , Macambira, S. ² , Almeida, H. G. ³ , Bermudez, V ² ; Galdino E ¹ ; Oliveira, E. ¹ ,
	Monteiro, R. ¹ and Gomes, R.B. ²
	¹ Federal University of Ceara - UFC ² Science and Technology Federal Institute of Ceara - IFCE
	³ Ceara State Water and Swage Company
11:15 - 1	13:15 SESSION – 7C: IN-SITU BIOREMEDIATION – ROOM C
	Chairpersons: Roberto de Philippis & Agnese Lai
ID 330	REHABILITATION OF ARID SOILS BY INOCULATING EXOPOLYSACCHARIDE-
	PRODUCING CYANOBACTERIA
	Sonia Chamizo, Gianmarco Mugnai, Federico Rossi, Andrea Simiani, Alessandra Adessi and
	Roberto De Philippis
	Dept of Agrifood Production and Environmental Sciences (DISPAA), Florence University, Italy
ID 311	ANAEROBIC DEGRADATION OF DIESEL CONTAMINATED GROUNDWATER:
	IDENTIFICATION OF THE COMPONENTS AND REMODELLING THE SYSTEM
	Krisztián Laczi ¹ , Attila Bodor ^{1, 2} , Ágnes Erdeiné Kis ^{1, 2, 3} , Naila Bounedjoum ^{1, 2} , Katalin Perei ¹ ,
	² , Tamás Kovács ⁴ and Gábor Rákhely ^{1, 2, 3} ¹ Dept of Biotechnology, Faculty of Science and Informatics; University of Szeged
	² Institute of Environmental and Technological Sciences, University of Szeged
	³ Institute of Biophysics, Biological Research Centre, Hungarian Academy of Sciences, Szeged
	⁴ Dept of Biotechnology, Nanophagetherapy Center, Enviroinvest Corp., Pécs, Hungary
ID 350	MICROBIAL ELECTROLYSIS CELL: TESTS FOR HEXAVALENT CHROMIUM
	REDUCTION FROM WATER
	Gabriele Beretta, Andrea Mastorgio, <u>Lisa Pedrali</u> , Sabrina Saponaro and Elena Sezenna
	Politecnico di Milano, DICA - Environmental section, Milano, Italy
ID 289	CHROMIUM (VI) REDUCTION UNDER ELECTRO-ASSISTED REDUCTIVE
	DECHLORINATION CONDITIONS BY DECHLORINATING CONSORTIUM
	Agnese Lai, Marialuisa Astolfi, Silvia Canepari, Marco Zeppilli and Mauro Majone
	Dept of Chemistry, Sapienza University of Rome, Rome, Italy
ID 220	SOIL AND VEGETABLES CONTAMINATION BY HEAVY METALS GENERATED BY
	ROAD TRAFFIC DENSITY NEAR BEJAIA DISTRICT - ALGERIA
	El hacene Balla ¹ , Atmane Allouache ² , Thiziri Ayad ³ and Hanane Hatou ³
	Dépt de tronc commun. Université Abderrahmane Mira de Bejaia, Targa ouzemmour, Bejaia
	² Faculté de Technologie, Université Abderrahmane Mira de Bejaia, Targa ouzemmour, Bejaia
ID 207	³ Dépt de sciences biologiques et environnementales. Université Abderrahmane Mira de Bejaia, Bejaia APPLICATION OF PHYTO-FENTON PROCESS TO POPS-CONTAMINATED SOIL
10 207	Rei Sasaki ¹ , Y. Sakakibara ¹ , Vo Huu Cong ² , Dinh Trinh Tran ³ , Nhung Dao Thi ³ and Hieu
	Minh Dang ⁴
	¹ Dept. of Civil and Environmental Engineering, Waseda University, Japan
	² Dept. of Environmental Management, Vietnam National University of Agriculture, Vietnam
	³ Faculty of Chemistry, Vietnam National University of Science, Vietnam
	⁴ School of Biotechnology and Food Technology, Hanoi University of Science and Technology, Vietnam

ID 151	REACTI	VE BIO-BARRIER FOR REMEDIATION OF VOC BY INDIGENOUS
	BACTER	IIA ISOLATED FROM OIL INDUSTRIAL AREA IN TEHRAN, IRAN
		<u>hodaei</u> ¹, Hamid Reza Nasseri² and Hadi Tabani¹
		Institute of Applied Sciences, ACECR, Shahid Beheshti University, Tehran, Iran
11.15 1		FEARTH Sciences, Shahid Beheshti University, Tehran, Iran
11:15 - 1		SSION – 7D: WASTEWATER TREATMENT – ROOM D
TD 205		airpersons: Davide Pinelli & Danae Venieri
ID 285		AL OF COD AND TOXICITY FROM OLD AND YOUNG LEACHATES BY EMEDIATION WITH ASCOMYCETES
		Siracusa ¹ , Ilaria Chicca ¹ , Simone Becarelli ^{1,2} , Alessandra Bardi ¹ , Francesco
		, Oiuyan Yuan ⁴ , Giulio Munz ³ and Simona Di Gregorio ¹
		y of Pisa, Department of Biology, Pisa, Italy ² BD BioDigressioni srl, Pisa, Italy
		y of Florence, Firenze, Italy 4 University of Manitoba, Winnipeg (MB), Canada
ID 195		JP OF A NOVEL URBAN WASTEWATER TREATMENT PLANT AT PILOT
	SCALE U	JSING ANAMMOX-BASED PROCESS AT MAINSTREAM CONDITIONS
	Carlos Ra	amos ¹ , Maria Eugenia Suárez-Ojeda ¹ , Javier Claros ² , Laura Pastor ² , Julio Pérez ¹ and
	Julián Ca	rrera ¹
		OV Research Group. Dept of Chemical, Biological and Environmental Engineering, Universitat
		de Barcelona, Barcelona, Spain
ID 173		n de Aguas del Mediterráneo (DAM), Parque Tecnológico, 46980 Paterna, Valencia, Spain COVERY OF METALS AND RARE EARTH ELEMENTS FROM
ID 173		LURGICAL WASTES USING VARIOUS CHEMICAL AGENTS
		ysz ¹ , Sebastian Hedwig ² and Markus Lenz ²
		f Geological Sciences, University of Wroclaw, Poland
		or Ecopreneurship, School of Life Sciences, FHNW, Muttenz, Switzerland
ID 171	RECOVE	ERY OF FLOATING BIOMASS FROM FREE WATER SURFACE BASINS:
		ING FOR OPTIMIZATION AND SUSTAINABILITY
		Fiorentino ¹ , Sara Zanni ² , Maurizio Luca Mancini ¹ and Alessandra Bonoli ¹
		Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Italy
TD 204		Centre for Industrial Research, Energy and Environment – CIRI EA, University of Bologna, Italy
ID 294		E INHIBITION ON PHOSPHORUS UPTAKE RATE: THE EFFECT OF pH
		Andreadakis, Gerasimos Fragkiskatos, Kyriaki Argyropoulou, Constantinos ulos, Simos Malamis and Daniel Mamais
		ngineering Laboratory, Dept of Water Resources and Environmental Engineering, School of Civil
		g, National Technical University of Athens, Athens, Greece
ID 319		ITY AND UTILIZATION OF SEWAGE SLUDGE IN AGRICULTURE AFTER
	TWO BIO	OTREATMENTS
		Angelova and Stefan Shilev
		icrobiology and environmental biotechnologies, Agricultural university – Plovdiv, Bulgaria
ID 373		NT TRANSFORMING BACTERIAL COMMUNITIES IN URBAN SEQUENTIAL
		NTATION-BIOFILTRATION SYSTEMS
		Font Najera ^{1,2} , Liliana Serwecińska ¹ and Joanna Mankiewicz-Boczek ^{1,2} Regional Centre for Ecohydrology of the Polish Academy of Sciences, Łódź, Poland.
		pplied Ecology, Institute of Ecology and Environmental Protection, Univ. of Lodz, Łódź, Poland
	Dept of H	prince Deology, institute of Beology and Environmental Protection, Christof Boaz, Boaz, Polana
13:15 –	18:45	WEDNESDAY AFTERNOON - FREE TIME
13:15 -	15:00	EFB - Environmental Biotechnology Section meeting (Room B)
13:15 -	15:00	WATER FOR AFRICA (Coordinators meeting, Room C)
20:00 -	00:30	Conference GALA DINNER
		Location: KTIMA REVELI
		(Russes leave at 18:45 from the venue hotel)

THURS	DAY, J	UNE28 TH , 2018			
8:30 - 9	:15	PLENARY LECTURE #6 – ROOM A			
		Session Chairpersons: Eugenia J. Olguín & Nicolas Kalogerakis			
ID 390		WASTE-BASED BIOREFINERY TO CONVERT ORGANIC WASTE INTO			
		BIOPLASTICS AND MORE: A SHORT SURVEY ON THREE H2020 PROJECTS			
		Prof. Mauro Majone			
		Department of Chemistry, University of Rome La Sapienza, Rome, Italy			
9:15 - 10:45		SESSION – 8A: WATER FOR AFRICA (TECHNOLOGIES, POLICIES) - ROOM A			
		Chairpersons: Atef Jaouani & Sara Borin			
ID 105	THE V	WATERSPOUTT PROJECT: SOLAR TECHNOLOGIES FOR WATER TREATMENT			
	IN SU	B-SAHARAN AFRICA			
	Kevin	G. McGuigan			
	Dept. of Physiology and Medical Physics, Royal College of Surgeons in Ireland (RCSI), Dublin, Ireland				
ID 108	THE WATERSPOUTT PROJECT: SOLAR RAINWATER REACTORS FOR WATER				
		FECTION			
	P. Fernandez-Ibañez ¹ , M.I. Polo-Lopez ² , M. Domingos ³ , M.J. Abeledo-Lameiro ⁴ , A. Reboredo				
	Ferná	ndez ⁴ , E. Ares-Mazás ⁴ and H. Gomez-Couso ^{4,5}			
	1 Nanot	echnology and Integrated BioEngineering Centre, School of Engineering, University of Ulster, UK			

- ¹ Nanotechnology and Integrated BioEngineering Centre, School of Engineering, University of Ulster, UK
- ² Plataforma Solar de Almería-CIEMAT, Almería, Spain.
- ³ Lab of Chemical Sciences, Universidade Estadual do Norte Fluminense Darcy Ribeiro, Brazil.
- ⁴ Lab of Parasitology, Dept of Microbiology and Parasitology, Univ. of Santiago de Compostela, A Coruña, Spain
- ⁵ Institute of Food Research and Analysis, Univ. of Santiago de Compostela, A Coruña, Spain.
- ID 161 AFRICAN-EUROPEAN AUTONOMOUS WATER TREATMENT SYSTEM FOR RURAL AREAS

<u>Lothar Schäfer</u>¹, Wendy Stone², Robert J. Bond³, Philippus Fouché⁴, Patrick Hlabela⁵, Thorsten Matthée⁶, Manuel A. R. Rodrigo⁷, P. Verlicchi⁸, Achille De Battisti⁹, C. Viola¹⁰ and Jac Wilsenach¹¹

- ¹ Fraunhofer Institute for Surface Engineering and Thin Films IST, Braunschweig, Germany
- ² Stellenbosch University, Stellenbosch, South Africa ³ Tshwane University of Technology, Pretoria, S. Africa
- ⁴Advance Call (Pty) Ltd, Pretoria, South Africa ⁵ Council for Scientific and Industrial Research CSIR, Pretoria, South Africa ⁶ Condias GmbH, Itzehoe, Germany ⁷ University of Castilla La Mancha, Ciudad Real, Spain
- ⁸ Università degli Studi di Ferrara, Ferrara, Italy ⁹Gate srl, Ferrara, Italy ¹⁰ Salomon Lda, Maputo, Mozambique ¹¹ Virtual Consulting Engineers (Pty) Ltd, Pretoria, South Africa
- ID 327 MULTISTAGE STOCHASTIC DIFFERENTIAL GAMES IN TRANSBOUNDARY WATER SHARING

Phoebe Koundouri^{1,4}, Nikolaos Englezos^{2,4} and Xanthi-Isidora Kartala^{3,4}

- ¹ ReSEES Laboratory, School of Economics, Athens University of Economics and Business, Greece
- ² Dept. of Banking and Financial Management, University of Piraeus, Piraeus, Greece
- ³ Dept. of Statistics, Athens University of Economics and Business, Athens, Greece
- ⁴ International Center for Research on the Environmental and the Economy (ICRE8), Athens, Greece
- ID 115 SELECTION AND APPLICATION OF A STABLE BACTERIAL CONSORTIUM ISOLATED FROM SEQUENCING BATCH REACTOR FOR TREATMENT OF PHENOLICS-RICH WASTEWATER

<u>Fatma Arous</u>¹, Chadlia Hamdi¹, Souhir Kmiha¹, Nadia Khammassi¹, Amani Ayari¹, Mohamed Neifar², Tahar Mechichi³ and Atef Jaouani¹

¹Lab of Microorganisms and Active Biomolecules, University of Tunis El Manar, Tunisia

²University of Manouba, ISBST, Ariana, Tunisia

³Lab de Biochimie et de Genie Enzymatique des Lipases, ENIS, Sfax, Tunisia

ID 181 COMBINED PROCESSES FOR EFFECTIVE REMOVAL OF FUNGICIDES FROM WASTEWATER

Monika Čvančarová¹, Jan Svojitka¹, Federica Bonacci¹, Thomas Wintgens¹, Nicolas Kalogerakis², Danae Venieri², Markus Lenz¹, and Philippe F.-X. Corvini^{1,3}

- ¹ Institute for Ecopreneurship, School of Life Sciences, FHNW, Muttenz, Switzerland
- ² School of Environmental Engineering, Technical University of Crete, Chania, Greece
- ³ State Key Laboratory of Pollution Control and Resource Reuse, Nanjing University, Xianlin, China

09:15-10:45 SESSION – 8B: BIOREACTOR TECHNOLOGIES FOR EX-SITU REMEDIATION – ROOM B

Chairpersons: Petros Gikas & Carlos Ramos

ID 166 MOVING BED BIOFILM REACTOR (MBBR) AS PRETREATMENT FOR WATER RECYCLING IN THE PETROCHEMICAL INDUSTRY

Judit Ribera¹, <u>Marina Badia</u>¹, Carme Bosch¹, Irene Jubany¹, Araitz Santamaria², Gorka Zalakain², Elisenda Taberna², Joan Sanz², David Arias³, V. Gómez³ and Xavier Martínez-Lladó¹

- $^{\rm 1}$ Fundació CTM Centre Tecnològic, Spain $^{\rm 2}$ Veolia Water Technologies Ibérica, Spain
- ³ Dow Water and Process Solutions, Spain
- ID 114 A PERMEABLE MACRO-ENCAPSULATION OF *P. PUTIDA* ACHIEVES EFFECTIVE BIODEGRADATION IN BATCH/CONTINUOUS BIOREACTOR Eval Kurzbaum¹, Yasmin Raizner¹ and Ofir Menashe^{2,3}

¹Shamir Research Institute, University of Haifa, P.O.B. 97, Qatzrin, Israel.

²Water Industries Engineering Dept, Achi Racov Eng. School, Kinneret College on the Sea of Galilee, Israel. ³BioCastle Water Technologies Ltd., Israel.

ID 172 MICROBIAL SYNTHESIS OF IRON NANOPARTICLES BY Geobacter metallireducens. EFFECTS OF MICROBIAL GROWTH PROCEDURE ON NANOPARTICLES COMPOSITION

Emmanouella Remoundaki, Artin Hatzikioseyian, Petros Tsakiridis, <u>Stella Savvopoulou</u>, Pavlina Kousi and Marios Tsezos

School of Mining and Metallurgical Engineering, Lab of Environmental Science and Engineering, National Technical University of Athens, Athens, Greece

ID 185 BIOLOGICAL OXIDATION OF CHOLINE-BASED IONIC LIQUIDS BY SEQUENCING BATCH REACTORS

<u>Ismael F. Mena</u>, Brandon J. Leal, Elena Diaz, Juan J. Rodriguez and Angel F. Mohedano Chemical Engineering Section, University Autónoma de Madrid, Madrid, Spain

ID 358 SEARCHING FOR AIR-CATHODE MICROBIAL DESALINATION CELLS OPTIMAL NICHE FOR PRODUCTION OF DRINKING WATER

Martí Aliaguilla¹, Pau Bosch-Jimenez¹, Victoria Miles¹, Marta Juan y Seva¹, Patricia Zamora², Víctor Monsalvo², Ruediger Schweiss³, Almut Schwenke³, Maarten Meijlink⁴, Abdulsalam Alhadidi⁴, Pau Ródenas⁵, Juan Manuel Ortíz⁵ and Eduard Borràs¹

- ¹ LEITAT Technological Center, C/ de la Innovació, 2, Terrassa (Barcelona), Spain
- ² Aqualia, Innovation and Technology Department, Av. del Camino de Santiago 40, Madrid, Spain
- ³ SGL Carbon GmbH, Werner-von-Siemens-Strasse 18, D-86405 Meitingen, Germany
- ⁴ Fujifilm Manufacturing Europe B.V. P.O. Box 90156, 5000 LJ Tilburg, The Netherlands
- ⁵ IMDEA Water Institute, Av. Punto Com, 2, Alcalá de Henares (Madrid), Spain
- 09:15-10:45 SESSION 8C: WASTE BIOREFINARIES & CIRCULAR ECONOMY ROOM C Chairpersons: Gerasimos Lyberatos and Lorenzo Bertin
- ID 391 INVALOR NATIONAL RESEARCH INFRASTRUCTURE FOR WASTE VALORIZATION AND SUSTAINABLE MANAGEMENT OF RESOURCES George Angelopoulos^{1,2}, Ioannis Kookos^{1,2}, Dionissios Mantzavinos^{1,2}, Constantina Marazioti^{1,2}, Angeliki Christogerou^{1,2} and Christos Tatsiopoulos^{1,2}
 - ¹ Department of Chemical Engineering, University of Patras, Patras, Greece
 - ² INVALOR: Research Infrastructure for Waste Valorization and Sustainable Management, Patras, Greece
- ID 266 BIOREFINERY SCHEME FOR THE PRODUCTION OF PHAS FROM A CONCENTRATED STREAM OF VFAS OBTAINED BY THE ACIDOGENIC FERMENTATION OF CHEESE WHEY

Salvatore Puccio¹, Joana M. B. Domingos¹, Gonzalo A. Martinez¹, Sarah Notarfrancesco¹, Serena Bandini¹, Maria A. M. Reis², Fabio Fava¹ and <u>Lorenzo Bertin^{1,3}</u>

- ¹ Dept. of Civil, Chemical, Environmental and Materials Engineering DICAM, University of Bologna, Italy
- ² Dept of Chemistry, UCBIO-Requimte, New University of Lisbon, Caparica, Portugal
- ³ IAMAW International Association of Mediterranean Agro-Industrial Wastes
- ID 250 PRODUCTIVITY OPTIMISATION OF A PILOT SCALE PROCESS FOR BIOCONVERSION OF FRUIT WASTE INTO PHA USING MMCs

Mariana Matos, Rafaela Cruz, Pedro Cardoso, Fernando Silva, Gilda Carvalho and Maria A.M. Reis

UCIBIO - REQUIMTE, Dep. de Química, Universidade Nova de Lisboa, Caparica, Portugal

ID 214	FOREST INDUSTRY WASTE VALORISATION THROUGH MICROBIAL PROCESSES
	FOR PHA PRODUCTION: A BIOREFINERY APPROACH
	André Freches and Paulo C. Lemos
	LAQV-REQUIMTE – Chemistry Department, Universidade NOVA de Lisboa, Portugal
ID 303	BIOELECTROCHEMICAL ACETATE PRODUCTION THROUGH METHANOGENS
	INHIBITION via THERMAL TREATMENT
	Marco Zeppilli, Laura Scardigno, Marianna Villano and Mauro Majone
	Dept of Chemistry University of Rome Sapienza, Rome, Italy
ID 397	SELECTIVE FRACTIONATION AND CONVERSION OF BIOMASS VIA
	THERMOCHEMICAL AND (BIO)CATALYTIC PROCESSES
	Konstantinos Triantafyllidis ^{1,2} , Antigoni Margellou ¹ , Christos Nitsos ¹ , P. Lazaridis ¹ and Evi
	Mitsiakou ¹
	¹ Dept of Chemistry, Aristotle University of Thessaloniki, Greece ² INVALOR: Research Infrastructure for Waste Valorization and Sustainable Management, Patras, Greece
_	
10:45-1	1:15 Coffee break & Poster Viewing (Section B)
11:15-13	3:15 SESSION - 9A: WATER FOR AFRICA (TECHNOLOGIES, POLICIES) – ROOM A
	Chairpersons: Nicola Lamaddalena & Philippe Ker Rault
ID 226	EXPLORATION OF PLANT GROWTH PROMOTING BACTERIA FOR SUSTAINABLE
	AGRICULTURE IN ARID AND SEMI-ARID AREAS
	Sara Borin ¹ , Francesca Mapelli ¹ , Valentina Riva ¹ , Giovanna Dragonetti ² , Ameur Cherif ³ ,
	Hanen Cherif ³ , Bilel Bejaoui ³ , Redouane Choukr-Allah ⁴ , Nicola Lamaddalena ²
	¹ University of Milan, DeFENS, Italy ² CIHEAM-Mediterranean Agronomic Institute of Bari, Bari, Italy
TD 045	³ Univ. Manouba, ISBST, Sidi Thabet, Tunisia ⁴ Hassan II Institut Agronomique et Veterinaire Morocco
ID 245	USE OF DEFICIT IRRIGATION STRATEGIES ON 'Orogrande' CLEMENTINE IN THE
	SOUSS REGION OF MOROCCO: EFFECT ON FRUIT GROWTH, YIELD AND QUALITY
	Mohamed El-Otmani, Charif Azrof, Anouar Chouaibi and Redouane Choukrallah Dept of Horticulture, Institut Agronomique et Vétérinaire Hassan II, Agadir, Morocco
ID 302	REENGINEERING THE QUATERNARY IRRIGATION CANALS IN EGYPT TO
10 302	ENHANCE DISTRIBUTION EFFICIENCY AND WATER QUALITY
	R. Khadra ¹ , Nicola Lamaddalena ¹ , Mohamed Abd El-Motaleb ² , C. Rolland ³ and A. Daccache ⁴
	¹ CIHEAM—Mediterranean Agronomic Institute of Bari, Bari, Italy ² National Water Resource Center, Egypt
	³ ROLLAND Arroseurs/Sprinklers, Mognard, France ⁴ University of California, Davis, USA
ID 306	THE ROLE OF WATER MANAGEMENT IN FOOD SECURITY AND SOCIOECONOMIC
	DEVELOPMENT. EVIDENCE FROM THE MENA REGION
	Blanco-Gutiérrez, I., <u>Suárez-Varela, M.</u> , Varela-Ortega, C. and Esteve, P.
	Dept of Agricultural Economics and Social Sciences. Universidad Politécnica de Madrid. Madrid, Spain
ID 175	EFFECT OF IRRIGATION WITH RECLAIMED WASTEWATER UNDER TWO SYSTEMS
	AND REGIME DOSES ON SWEET CORN
	Chour-Allah Redouane, Afaf belabhir, Hajar Benlouali, M. Cherif Harrouni and M. El-Otmani

- Chour-Allah Redouane, Afaf belabhir, Hajar Benlouali, M. Cherif Harrouni and M. El-Otman Hassan II Institute of Agronomy and Veterinary Medicine, Agadir, Morocco

 FLOWERED PROJECT: WATER DE-FLUORIDATION DISSEMINATION ACTIVITIES

 Mehamaday Baha Syl Lilia Bangidl C. Chigliani² Maria Targas Malia² and Francesca Daggi²
- Mohamedou Baba Sy¹, Lilia Benzid¹, G. Ghiglieri², Maria Teresa Melis² and Francesco Dessi²

 Sahara and Sahel Observatory, Italy ² Universita Degli Studi di Cagliari, Italy

 WASTEWATER REUSE FOR IRRIGATION UNCONVENTIONAL OR UN-WELCOME
- WASTEWATER REUSE FOR IRRIGATION UNCONVENTIONAL OR UN-WELCOME RESOURCE? LOCAL PERCEPTIONS ON BARRIERS AND DRIVERS FOR REUSE IN EGYPT, MOROCCO AND TUNISIA

 P.A. Ker Rault¹ A. El-din Abdin², R. Choukr-Allah³, A. Jaouani⁴, F. Chenini⁵ and D. Frascari⁶¹ Wageningen Envrironmental Research, The Netherlands ²National Water Research Center, Egypt ³ Hassan II Institue of Agronomy and Veterinary Medecine, Morocco ⁴ University of Tunis El Manar, Tunisia ⁵ Food and Agriculture Organisation of UN Regional office for near East and North Africa, Egypt ⁶ University of Bologna, Italy
- 11:15-13:15 SESSION -9B: ASSESSING LONG TERM ENVIRONMENTAL IMPACTS: THE ROLE OF OBSERVATORY SCIENCE ROOM B
 Chairpersons: Nikolaos Nikolaidis & Maria Kanakidou
- ID 339 LONG-TERM ATMOSPHERIC RESEARCH AT THE FINOKALIA ENVIRONMENTAL RESEARCH OBSERVATORY Nikolaos Mihalopoulos^{1,2}, Nikos Kalivitis^{1,3}, Giorgos Kouvarakis¹ and Maria Kanakidou¹

- ¹ Environmental Chemical Processes Laboratory, Chemistry Department, University of Crete
- ² National Observatory of Athens, Institute for Environmental Research and Sustainable Development
- ³ National Observatory of Athens, Institute for Astronomy Astrophysics Space Applications and Remote Sensing
- LTER-GREECE: THE LONG-TERM ECOSYSTEM RESEARCH NETWORK OF GREECE Nikolaos P. Nikolaidis¹, Maria Mimikou², Nikolaos Mihalopoulos³, Andreas Panagopoulos⁴, Theodora Petanidou⁵, Georgios Maneas⁶, Nikolaos Skoulikidis⁷ and Petros Lyberakis⁸
 - ¹ School of Environmental Engineering, Technical University of Crete, Chania, Greece
 - ² School of Civil Engineering, National Technical University of Athens, Greece
 - ³ Dept. of Chemistry, University of Crete, Greece
 - ⁴ Soil and Water Resources institute, Hellenic Agriculture Organisation, Greece
 - ⁵ Dept. of Geography, University of Aegean, Greece ⁶ Navarino Environmental Observatory, Greece
 - ⁷ National Centre for Marine Research, Greece ⁸ Samaria National Park, Greece
- ID 316 ESTABLISHING LONG-TERM ECOLOGICAL RESEARCH INFRASTRUCTURE AT THE RIVER PINIOS HYDROLOGIC OBSERVATORY

Vassilios Pisinaras¹, F. Herrmann², Andreas Panagopoulos¹, A. Ragkos³ and Frank Wendland²

- ¹ Soil and Water Resources Institute, Hellenic Agricultural Research Organisation, Greece
- ² Agrosphere Institute, Forschungszentrum Jülich, Germany
- ³ Agricultural Economics Research Institute, Hellenic Agricultural Research Organisation, Greece
- ID 314 LONG-TERM ECOSYSTEM RESEARCH AT THE KOILIARIS CRITICAL ZONE OBSERVATORY

Sofia Nerantzaki, Dionissios Efstathiou and Nikolaos P. Nikolaidis

School of Environmental Engineering, Technical University of Crete, Chania, Greece

- ID 140 ENVIRONMENTAL RISK ASSESSMENT OF SOIL CONTAMINATION BY TRACE ELEMENTS AROUND OPEN MINE AND TAILING DUMP OF THE AKHTALA ORE PROCESSING COMBINE
 - Ghazaryan Karen¹ and Khachatryan Hrant²
 - ¹ Chair of Ecology and Nature Protection, Faculty of Biology, Yerevan State University, Republic of Armenia
 - ² Ministry of Education and Science of RA, Armenian National Agrarian University, Yerevan, Rep. of Armenia
- ASSESSING LONG TERM ENVIRONMENTAL IMPACTS: THE ROLE OF OBSERVATORY SCIENCE. THE CASE OF NAVARINO ENVIRONMENTAL OBSERVATORY (NEO), MESSINIA, GREECE

<u>Giorgos Maneas</u>^{1,2}, Karin Holmgren¹, Håkan Berg², Georgia Destouni^{1,2}, E. Gerasopoulos ^{1,5}, HC Hansson⁶, V. Karakousis^{1,4}, Radovan Krejci⁶, S. Manzoni², M. Papatsoni ^{1,4} and C. Zerefos ^{1,3}

- ¹ Navarino Environmental Observatory (NEO), Messinia, Greece
- ² Dept of Physical Geography, Stockholm University (SU), Sweden
- ³ Biomedical Research Foundation of the Academy of Athens (BRFAA), Academy of Athens, Greece
- ⁴ Touristic Developments of Messinia (TEMES), Greece
- ⁵ Institute for Environ. Research and Sustainable Development, National Observatory of Athens (NOA), Greece
- ⁶ Dept of Environmental Science and Analytical Chemistry (ACES), Stockholm University, Sweden
- 11:15-13:15 SESSION 9C: WASTE BIOREFINARIES & CIRCULAR ECONOMY ROOM C Chairpersons: Christos Tatsiopoulos and Antonis Gypakis
- ID 158 ECOTOXICITY EVALUATION OF SOIL CONDITIONED WITH FOAMING PRODUCTS BY A BIOASSAY BATTERY

Anna Barra Caracciolo¹, Paola Grenni¹, <u>Emanuela Galli</u>², Jasmine Rauseo¹, Nicoletta Ademollo¹, Maria Ludovica Saccà¹, Maria Teresa Palumbo³, Valerio Giorgio Muzzini², Enrica Donati⁴, Ines Lacchetti⁵, Anita Di Giulio⁶, Paola M. B. Gucci⁵, Eleonora Beccaloni⁵ and Luisa Patrolecco¹

- ¹ IRSA-CNR, Monterotondo, Rome, Italy
- ² IBAF-CNR, Monterotondo, Rome, Italy ³ IRSA-CNR, Monza-Brianza, Italy
- ⁴ IMC-CNR, Monterotondo, Rome, Italy ⁵ ISS Environmental and Health Department, Rome, Italy ⁶ IGAG-CNR, Monterotondo, Rome, Italy
- ID 252 WETWINE PROJECT- WINERY WASTEWATER VALORISATION SYSTEM BASED ON CONSTRUCTED WETLANDS

Alfonso Ribas¹, Rocio Pena², Daniel Durán³ and Ma Carmen Saborido¹

- ¹ Ingacal, Sergude, Boqueixón, A Coruña, Spain ² Aimen, Polígono Industrial De Cataboi Sur- O Porriño, Spain
- ³ Feuga, Campus Vida, 15705 Santiago De Compostela, Spain

ID 370	\ 1 /			
	GROWING ON WINERY WASTEWATER			
	Vasiliki Ariadni Axaopoulou, Haris Marakas, Nicolas Kalogerakis and Petros Gikas			
	School of Environmental Engineering, Technical University of Crete, Chania, Greece			
ID 382	BIOMETHANE POTENTIAL DETERMINANTS OF DIFFERENT AGRO INDUSTRIAL			
	SUBSTRATES			
	Sarigiannis Dimosthenis ^{1,2} , Kaldis Fokion ¹ and Zarkadas Ioannis ¹			
	¹ Environmental Engineering Lab, Dept of Chemical Engineering, Aristotle University of Thessaloniki, Greece			
	² Environmental and Sanitary Engineering, Institute for Advanced Study (IUSS), Pavia, Italy			
ID 219	PRODUCTION OF KERATINASE BY Bacillus atrophaeus BN2			
	Nawel Boucherba ¹ , Houria Sadou ¹ , Naïma Mechmeche ¹ , Samir Hama ¹ , Amel Bouanane-			
	Darenfed ² , Azzedine Bettache ¹ , Khelifa Bouacem ² , Cilia Bouiche ¹ and Rima Maibeche ¹			
	¹ Lab of Applied Microbiology, Faculty of Nature Science and Life, University of Bejaia, Bejaia, Algeria			
	² Lab of Cellular and Molecular Biology, Univ. of Sciences and Techn. of Houari Boumediene, Algiers, Algeria			
ID 347	WASTE PRODUCTS FROM POULTRY INDUSTRY: THE SOURCE OF HIGH VALUE			
	DIETARY SUPPLEMENTS			
	Hana Stiborova ¹ , Petr Kastanek ² , Olga Kronusova ^{1,2} , Monika Jíru ³ , Jan Poustka ³ and Katerina			
	Demnerova ¹			
	¹ UCT Prague, Dept of Biochemistry and Microbiology, Prague 6, Czech Republic			
	² EcoFuel Laboratories s.r.o., Prague 9, Czech Republic			
	³ UCT Prague, Department of Food Analysis and Nutrition, Prague 6, Czech Republic			
ID 104	USING RICE STRAW AS FEEDSTOCK FOR PRODUCING FUELS AND BIOBASED			
	CHEMICALS: A VIABLE OPTION FOR STRAW DISPOSAL			
	Anju Arora ¹ , Preeti Nandal ¹ and Shalley Sharma ¹			
	¹ Division of Microbiology, Indian Agricultural Research Institute, New Delhi, India			
	CLOSING CEREMONIES & AWARDS - ROOM A			
13:15-1	(Best POSTER & ORAL by Graduate Student)			
	(Best 1 Ob 1 Lik & Old II by Gladade Stadent)			
13:45-1	5:00 LUNCH (Minoa Palace Hotel)			
13,43-1				
15:00	END OF CONFERENCE			

FRIDAY, JUNE 29TH, 2018

Conference trip

08:00-18:00 (St Irene's Gorge or Rethymno old-city tour)

Please indicate your preference at registration

Conference Programme

(as of May 31, 2018)



POSTER PRESENTATIONS

POSTER SECTION A

(Presentation Period: Monday 10:30 to Tuesday 14:10)

IN SITU REMEDIATION OF CONTAMINATED SOILS & GROUNDWATER

ID 134 DIAGNOSTIC OF MANGROVE AREA CONTAMINATED BY FUEL OIL SPILL, TO CARRY OUT IN SITU BIOREMEDIATION WORK

<u>Dayana Rabassa Rabassa</u>¹, Orlando Manuel Viera Ribot¹, David Javier Castro Rodríguez¹, Omar Gutiérrez Benítez¹, José Reynol Poma Rodríguez¹, Eudalys Ortíz Guilarte², Roberto Núñez Moreira² and Angel Rodriguez Quesada³

- ¹ Centre of Environmental Studies of Cienfuegos, Cuba ² Institute of Marine Sciences, Cuba ³ Oil Refinery "Camilo Cienfuegos" of Cienfuegos, Cuba
- BACTERIAL INOCULATION AFFECTS PLANT GROWTH AND BIOAVAILABILITY OF ORGANIC CONTAMINANTS IN BOTTOM SEDIMENT CONTAMINATED SOILS Sylwia Siebielec¹, Grzegorz Siebielec¹, Magdalena Urbaniak², B. Smreczak¹ and Petra Kidd³
 - ¹ Institute of Soil Science and Plant Cultivation State Research Institute, Puławy, Poland
 - ² European Regional Centre for Ecohydrology of the Polish Academy of Sciences, Łódź, Poland
 - ³ CSIC, Santiago de Compostella, Spain
- ID 403 VISUALIZATION OF IN SITU REMEDIATION BY-PRODUCTS USING μ-CT IMAGING Georgina C. Kalogerakis and Brent E. Sleep

Dept. of Civil and Mineral Engineering, University of Toronto, Canada

		' CONTAMINA'		

ID 112 PREFERENTIAL TISSUE ACCUMULATION AND SYNCHROTRON-BASED EVIDENCE OF CU BIOTRANSFORMATION IN COWPEA GROWN ON COPPER NANOPARTICLES-AMENDED SOIL

<u>Clement O. Ogunkunle</u>^{1,2}, Benjamin Bornmann², Ralph Wagner², Paul O. Fatoba¹, Ronald Frahm¹ and Dirk Lützenkirchen-Hecht²

¹Environmental Biology Unit, Department of Plant Biology, University of Ilorin, Ilorin, Nigeria ² Faculty 4 - Physics department, Bergische Universität Wuppertal, Wuppertal, Germany

ID 132 BIO-PILES ECO-TECHNOLOGY FOR THE TREATMENT OF SOILS AND SOLID WASTE WITH HYDROCARBONS IN CUBA

Omar Gutiérrez Benítez¹, David Javier Castro Rodríguez¹, Orlando Manuel Viera Ribot¹, José Reynol Poma Rodríguez¹, Dayana Rabassa Rabassa¹, Enmanuel Casals Pérez¹, Regla María Alomá Oramas¹, R. Yvelice Sibello Hernández¹, E. Ortíz Guilarte², Roberto Núñez Moreira² and Y. Bernal Carrazana³

¹ Centre of Environmental Studies of Cienfuegos, Cuba ² Institute of Marine Sciences, Cuba ³ Soil Research Institute, Cienfuegos, Cuba

ID 174 METAL RELEASE AS THE RESULT OF METALLURGICAL SLAGS WEATHERING IN THE LITTER ZONE

Anna Potysz¹, Artur Pędziwiatr², Sebastian Hedwig³ and Markus Lenz³

¹ Institute of Geological Sciences, University of Wroclaw, Poland

² Institute of Soil Sciences and Environ. Protection, Wrocław Univ. of Environ. and Life Sciences, Poland

³ Institute for Ecopreneurship, School of Life Sciences, FHNW, Switzerland

ID 177 CARACTERIZATION OF THE RESULTING SUBSTRATUM OF THE TREATED OILY MUDS AT THE FUEL OIL COMMERCIALIZATION ENTERPRISE FROM VILLA CLARA, CUBA

<u>David Javier Castro Rodríguez</u>¹, José Reinol Poma¹, Jelvys Bermúdez Acosta¹, Magdalena Rodríguez² and Hortensia Pérez²

¹ Centre of Environmental Studies of Cienfuegos, Cuba ² Fuel Distributor Enterprise of Villa Clara, Cuba

ID 178 HAZARDOUS WASTE MANAGEMENT PLAN FOR THE SEMI-PILOT SCALE BIOPILES ECOTECHNOLOGY

<u>Enmanuel Casals Pérez</u>, Regla María Aloma Pérez, Dayana Rabassa Rabasa, David J. Castro Rodríguez, Omar Gutiérrez Benítes and Orlando M. Viera Ribot

Center for Environmental Studies of Cienfuegos, Cuba

ACCELERATED BIOREMEDIATION OF PETROLEUM-CONTAMINATED SOILS AT PRESENCE OF NATURAL ADSORBENTS
Zinnatshina L.V^{1,2}., Kondrashina V.S. ¹, Strijakova E.R. ¹, <u>Vasilyeva G.K.</u> ^{1,2}

¹ Institute of Physicochemical and Biological Problems in Soil Science RAS

² Pushchino State Institute of Natural Science, Pushchino, Moscow region, Russia

ID 270 BIODEGRADATION OF PHENANTHRENE AND PYRENE BY TWO FUNGAL STRAINS ISOLATED FROM PAH *IN VITRO* CULTURE

<u>Liliana Reynoso-Cuevas</u>^{1,2}, Arturo Salinas-Martínez³, S. Roussos⁴ and M. Gutiérrez-Rojas¹

¹Biotechnology Department, Universidad Autónoma Metropolitana-Iztapalapa, México

² Cátedras-CONACYT Researcher at CIMAV-Durango, México

³ Agroindustrial Engineering, Universidad Politécnica de Guanajuato, México

⁴ Institut Méditerranéen de Biodiversité et d'Ecologie Marine et Continentale, France

ID 338 BENZO(a)PYRENE BIODEGRADATION BY BACTERIAL CANDIDATE Paenibacillus sp HD1PAH AND Arthrobacter nicotianae HD2PAH

Hemen Deka¹, Jiumoni Lahkar² and Jyotismita Das³

¹Department of Botany, Gauhati University, Guwahati, Assam, India

²CSIR-North East Institute of Science & Technology, Jorhat, Assam, India

³Department of Zoology, Nowgong College, Nagaon, Assam, India

BIOREMEDIATION OF SITES CONTAMINATED WITH CRUDE OIL, PETROCHEMICALS AND PAHS

ID 146 THE IDENTIFICATION AND POTENTIAL EXPLOITATION OF XENOMETABOLIC GENES IN Aspergillus FUNGI

<u>Haley P. Stein</u>¹, Ulises Conejo-Saucedo¹, Dario Rafael Olicon-Hernandez¹, Alfonso Rodriguez-Calvo, Rafael Navajas², Jesus Gonzalez-Lopez¹, Elisabet Aranda¹

	¹ Institute of Water Research, University of Granada, Granada, Spain
	² Department of Genetics, University of Granada. Campus de Fuentenueva, Granada, Spain
ID 148	AIR PASSIVE DOSING OF TOLUENE INCREASES ACCESSIBILITY OF PAHS FOR
	MICROBIAL DEGRADATION
	Stefan Humel ¹ , Catherine Zaknun ¹ , Philipp Mayer ² and Andreas P Loibner ¹
	¹ Institute of Environmental Biotechnology, BOKU Univ. of Natural Resources and Life Sciences, Austria
	² Department of Environmental Engineering, Technical University of Denmark, Denmark
ID 297	IMPACT OF OOMYCETE MYCELIA ON DEGRADATION OF LIPOPHILIC
110 271	XENOBIOTICS
	Blanka Vrchotová ¹ , Veronika Horáková ¹ , Gabriela Kuncová ² and Petra Lovecká ¹
	¹ Dept of biochemistry and microbiology, University of Chemistry and Technology, Prague 6, Czech Republic
TD 460	² Institute of Chemical Process Fundamentals of the CAS, Prague 6, Czech Republic
ID 169	THE IMPACT OF GROWTH CONDITIONS ON THE RHAMNOLIPIDS PROFILE IN P.
	aeruginosa SPECIES FROM DEAD BIRDS
	Marta Wozniak-Karczewska ¹ , Kamila Myszka ² , Alicja Szulc ¹ , Agnieszka Zgola-Grzeskowiak
	Dorota Formanowicz ⁴ and Lukasz Chrzanowski ¹
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	⁴ Dept of Clinical Biochemistry and Laboratory Medicine, Poznan University of Medical Sciences, Poland
ID 312	MICROBIAL TOLERANCE TO ORGANIC SOLVENTS
	Attila Bodor ^{1,2} , Andrea Pintér ¹ , Ágnes Erdeiné Kis ^{1,2,3} , Krisztián Laczi ³ , Katalin Perei ^{1,2} and
	Gábor Rákhely ^{1,2,3}
	¹ Department of Biotechnology, University of Szeged, Hungary
	² Institute of Environmental and Technological Sciences, University of Szeged, Hungary
	³ Institute of Biophysics, Biological Research Centre, Szeged, Hungary
ID 313	REHABILITATION OF A RAILWAY STATION AREA POLLUTED WITH USED
10 313	LUBRICATING OILS (ULOs): A CASE STUDY
	Attila Bodor ^{1,2} , Péter Petrovszki ¹ , Naila Bounedjoum ^{1,2} , Ágnes Erdeiné Kis ^{1,2,3} , <u>Krisztián</u>
	Laczi ² , Gábor Rákhely ^{1,2,3} and Katalin Perei ^{1,2}
	Department of Biotechnology, University of Szeged, Hungary
	² Institute of Environmental and Technological Sciences, University of Szeged, Hungary
ID 221	³ Institute of Biophysics, Biological Research Centre, Szeged, Hungary
ID 321	BACTERIAL KEY PLAYERS IN THE BIODEGRADATION OF 4-RING POLYCYCLIC
	AROMATIC COMPOUNDS IN POLLUTED SOILS
	Sara N. Jiménez Volkerink ¹ , Joaquim Vila ² and Magdalena Grifoll ¹
	¹ Dept. of Genetics, Microbiology and Statistics, Faculty of Biology, University of Barcelona, Spain
	² Institute of Natural Resources and Agrobiology (IRNAS-CSIC), Sevilla, Spain
ID 325	DEGRADATION OF DIESEL/BIODIESEL BLENDS IN SOIL – EFFECT OF
	BIOAUGMENTATION
	Marta Woźniak-Karczewska ¹ , Paweł Cyplik ² , Hermann J. Heipieper ³ and <u>Łukasz</u>
	<u>Chrzanowski¹</u>
	¹ Institute of Chemical Technology and Engineering, Poznan University of Technology, Poznań, Poland
	² Department of Biotechnology and Food Microbiology, Poznan University of Life Sciences, Poznań, Poland
	³ Helmholtz Centre for Environmental Research – UFZ, Dept of Environ. Biotechnology, Leipzig, Germany
ID 342	BIODEGRADATION OF Oxy-PACs AND N-PACs DURING ENHANCED NATURAL
	ATTENUATION OF A CREOSOTE-POLLUTED SOIL
	Sara N. Jiménez Volkerink ¹ , Margalida Tauler ¹ , Joaquim Vila ² and Magdalena Grifoll ¹
	Dept. of Genetics, Microbiology and Statistics, Faculty of Biology, University of Barcelona, Spain
	² Institute of Natural Resources and Agrobiology (IRNAS-CSIC), Sevilla, Spain
ID 343	COMPOST APPLICATION IN THE BIOREMEDIATION OF AN INDUSTRIAL SOIL
	POLLUTED WITH PETROLEUM HYDROCARBONS (DRO) AND HEAVY METALS
	Adriana N. Villamarín ¹ , Sara N. Jiménez-Volkerink ¹ , Marçal Bosch ² and Magdalena Grifoll ¹
	¹ Dept. of Genetics, Microbiology and Statistics, Faculty of Biology, University of Barcelona, Spain
	² Litoclean SL, Barcelona, Spain
ID 422	FLOATING LAYER REMOVAL, A NECESSITY FOR A SUCCESSFUL
11) 422	PHYTOREMEDIATION OF FUEL-OIL CONTAMINATION
	Peter Smeets and Panagiotis Gkorezis
	PSMT - Environmental Technologies, Lommel, Belgium

BIOREMEDIATION OF SITES (CONTAMINATED	WITH CHLORIN	NATED AND (OTHER
RECALCITRANT COMPOUNDS	S			

ID 199 BIOREMEDIATION OF CHC: COMPARATIVE PILOT APPLICATION OF SODIUM LACTATE AND GLYCEROL-BASIS SUBSTRATE

Vojtech Stejskal^{1,2}, Petr Kvapil² and Tomáš Lederer¹

Department of nanomaterials in natural sciences, Technical University of Liberec, Czech Republic Photon Water Technology s.r.o., Czech Republic

ID 228 RHIZOREMEDIATION OF A HISTORICAL PCB POLLUTED SOIL: PLANT-DRIVEN BIOSTIMULATION OF THE SOIL MICROBIOME

Lorenzo Vergani¹, <u>Francesca Mapelli</u>¹, Elisa Terzaghi², Giuseppe Raspa³, Ondrej Uhlik⁴, Elisabetta Zanardini², Cristiana Morosini², Antonio Di Guardo² and Sara Borin¹

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²Dept of Science and High Technology, University of Insubria, Como, Italy

³Dept of Chemical Engineering, Materials, and Environment, "La Sapienza University", Rome, Italy

⁴Dept of Biochemistry and Microbiology, University of Chemistry and Technology, Prague, Czech Republic

ID 236 MICROBIAL DIVERSITY IN A CHLORINATED-SOLVENT CONTAMINATED SAMPLE IN A PETRO-CHEMICAL AREA IN SICILY

<u>Maria Genovese</u>¹, Renata Denaro¹, Maurizio Catalfamo¹, Alfonso Modica², Manlio Rossini² and Simone Cappello¹

¹ Institute for Coastal Marine Environment (IAMC), CNR of Messina, Italy

² Syndial, Servizi Ambientali S.p.A, Priolo Gargallo (Siracusa), Italy

ID 249 GREEN REMEDIATION OF A PCB POLLUTED SOIL BY POPLAR ASSISTED BIOREMEDIATION

<u>Valeria Ancona¹</u>, Paola Grenni², Claudia Campanale¹, Anna Barra Caracciolo², Martina Cardoni², Giorgia Aimola¹, Martina Di Lenola², Giuseppe Bagnuolo¹, Giuseppe Mascolo¹ and Vito Felice Uricchio¹

¹ National Research Council, Water Research Institute, Bari (BA), Italy

² National Research Council, Water Research Institute, Monterotondo (RM), Italy

ADSORPTION OF CHLORINATED SOLVENTS AND HEAVY METALS ONTO LOW-COST MATERIALS (BIOCHARS) IN GROUNDWATER REMEDIATION Marta M. Rossi¹, Neda Amanat¹, Angela Hady¹, Elisabetta Marconi¹, Maria Luisa Astolfi¹, Ludovica Silvani² and Marco Petrangeli Papini¹

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² Norwegian Geotechnical Institute (NGI), Ullevaal, Oslo, Norway

ID 257 DECHLORINATION CAPABILITIES AND DIVERSITY OF REDUCTIVE DEHALOGENASES GENES OF A MARINE ORGANOHALIDE-RESPIRING CONSORTIUM

Marco Rocca, Andrea Nuzzo, Fabio Fava and Giulio Zanaroli

Dept. of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Italy

ID 304 PESTICIDE BIOREMEDIATION POTENTIAL OF RHIZOBACTERIA

Wafa Hassen¹, Mohamed Neifar¹, Hanene Cherif¹, Afef Najjari², Habib Chouchane¹, Rim Driouich Chaouachi¹, Fatma Naili¹, Amor Mosbah¹, Yasmine Souissi¹, Noura Raddadi³, Hadda Imen Ouzari², Fabio Fava³ and Ameur Cherif¹

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³Dept of Civil, Chemical, Environmental and Materials Engineering (DICAM), University of Bologna, Italy

ID 406 TEST ON POPLAR CLONE MONVISO GROWING IN A HISTORICALLY PCB CONTAMINATED SOIL

<u>L. Passatore</u>¹, A. Barra Caracciolo², M. Di Lenola², P. Grenni², I. Nogues¹, E. Guerriero³, P. Benedetti³ and A. Massacci¹

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³ National Research Council, Institute of Atmospheric Pollution Research (IIA-CNR), Rome, Italy

BIOREMEDIATION OF EMERGING CONTAMINANTS

ID 202 EVALUATION AND OPTIMISATION OF BIODEGRADATION OF PHARMACEUTICAL MICRO-POLLUTANTS (IBUPROFEN)

Anna Pettineo ^{1,2}, Maria Genovese¹, Lucrezia Genovese¹, Giovanni Pioggia³, Santina Santisi^{1,3}, Giuseppe Mancini ⁴ and <u>Simone Cappello</u> ¹

- ¹ Institute for Coastal Marine Environment (IAMC) CNR of Messina, Italy
- ² Dep. of Chemical, Biological, Pharmaceutical and Environmental Sciences, University of Messina, Italy
- ³ Institute of Applied Sciences & Intelligent Systems "Eduardo Caianiello" (ISASI)-CNR of Messina, Italy

⁴ Dep. of Electronic Engineering, University of Catania, Italy

ID 299 ANTIMICROBIAL AGENTS IN PERSONAL CARE PRODUCTS CAUSE ANTIESTROGENIC EFFECT

<u>Linhartová Lucie^{1,2}</u>, Ezechiáš Martin¹, Michalíková Klára^{1,2} and Cajthaml Tomáš^{1,2}

- ¹ Institute of Microbiology, Academy of Sciences of the Czech Republic, v.v.i., Czech Republic
- ² Institute for Environmental Studies, Faculty of Science, Charles University, Czech Republic
- ID 394 EMERGING CONTAMINANTS TRANSLOCATION IN VEGETABLES FROM CONTAMINATED SOIL

Gabriele Beretta, Andrea Mastorgio, Sabrina Saponaro and Elena Sezenna

Politecnico di Milano, DICA - Environmental section, Milano, Italy

MONITORING STUDIES AND TOOLS

ID 135 SORPTION OF ORGANIC POLLUTANTS TO SOIL AND BIOFILM

Muhammad Raza^{1,2}, Tyne Brückner², Christine Kübeck¹ and Christoph Schüth^{1,2}

¹ IWW Water Centre, Mülheim an der Ruhr, Germany

² Institute of Applied Geosciences, Technische Universität Darmstadt, Germany

ID 136 HISTORICAL ACCUMULATION OF PAHs IN SEDIMENTS OF THE HANABANILLA RESERVOIR, VILLA CLARA, CUBA

Orlando Manuel Viera Ribot, Misael Díaz Asencio and Yan Miguel Gallo

Centre of Environmental Studies of Cienfuegos, Cuba

ID 208 PAH BIOTRANSFORMATION IN SEDIMENT-CAPPING ENVIRONMENTS: RECOMMENDATIONS FOR DESIGNING BIOACTIVE SYSTEMS Giovanna Pagnozzi, Kayleigh Millerick and Danny Reible

Dept. of Civil & Environmental Engineering, Texas Tech University, Lubbock, TX, USA

ID 296 COMET ASSAY – A SIMPLE METHOD FOR EVALUATION OF MUTAGENICITY OF NANOPARTICLES

<u>Petra Lovecká</u>¹, V. Pavelková¹, A. Macůrková¹, J. Siegel², O. Valentová¹ and K. Demnerová¹ Dept of Biochemistry and Microbiology, UCT Prague, Prague 6, Czech Republic.

²Dept of Solid State Engineering, UCR Prague, Prague 6, Czech Republic.

BIOREACTORS TECHNOLOGIES FOR EX-SITU TREATMENT

ID 273 CARBON CAPTURE BY MACROPHYTES PLANTED IN FLOATING TREATMENT WETLANDS ESTABLISHED IN URBAN PONDS

Gloria Sánchez-Galván, <u>Eugenia J. Olguín</u>, David Jiménez-Moreno, Francisco J. Melo and Javier Hernández-Landa

Environmental Biotechnology Group, Institute of Ecology, Xalapa, Veracruz, México

ID 274 PHYCOCYANIN INDUCTION IN Arthrospira maxima WITH DIFFERENT LED LAMPS: A TWO-STAGE PROCESS

Daniel A. García-López¹, <u>Eugenia J. Olguín</u>¹, Ricardo E. González-Portela¹, Gloria Sánchez-Galván¹ and Robert Lovitt²

¹Environmental Biotechnology Group, Institute of Ecology, Mexico

²Membranology Ltd, Swansea University, UK

ID 329 METHANE PRODUCTION FROM FOOD WASTE IN A PERIODIC ANAEROBIC BUFFLED REACTOR (PABR)

Dimitrios Mathioudakis¹, Ioannis Michalopoulos¹, Konstantinos Kalogeropoulos¹, Konstantina Papadopoulou¹ and Gerasimos Lyberatos^{1,2}

¹School of Chemical Engineering, National Technical University of Athens, Athens, Greece ²Institute of Chemical Engineering Sciences (ICE-HT), Platani, 26504 Patras, Greece

ID 341 EVALUATION OF PHYCOERYTHRIN WET-EXTRACTION FROM Porphyridium purpureum BY THREE METHODS

Mavy F. Maldonado-Salazar¹, J. Saúl García-Pérez¹, Carmen Salinas-Salazar¹, Hafiz M.N. Iqbal¹, Robert W. Lovitt², Eugenia J. Olguín³, Roberto Parra-Saldívar¹

- ¹ Tecnologico de Monterrey, Escuela de Ingeniería y Ciencias, Monterrey, N.L., México
- ² Membranology Ltd c/o Broomfield & Alexander Li Charter Court Phoenix Way, Swansea, UK
- ³ Environmental Biotechnology Group, Institute of Ecology (INECOL), El Haya, Xalapa, Mexico
- ID 360 REMOVAL OF TOXIC METAL IONS FROM AQUEOUS EFFLUENTS BY BIOSORPTION AND BIOACCUMULATION IN AN AIRLIFT SYSTEM

Mihaela	Rosca ¹ ,	Teresa	Tavares ²	and N	Taria	Gavrilescu ^{1,3}
winacia	Trosca .	I CI CSA	Iavaics	and it	laila	Gavinescu

¹Gheorghe Asachi TU-Iasi, Dept of Environmental Engineering and Management, Iasi, Romania

²University of Minho, CEB – Centre of Biological Engineering, Campus de Gualtar, Braga, Portugal

³Academy of Romanian Scientists, Bucharest, Romania

PHYTOREMEDIATION TECHNOLOGIES FOR REMOVAL OF HEAVY METALS

ID 110 PHYTOREMEDIATION MEASURES FOR RESTORING QUALITY STATE OF CHERNOZEM CAMBIC FROM MOLDOVA Tamara Leah

Institute of Soil Science, Agrochemistry and Soil Protection "Nicolae Dimo", Chisinau, Republic of Moldova

ID 111 SCREENING FOUR ATRIPLEX SPECIES FOR SALT TOLERANCES
Amer W. Abdul Kareem¹ and Khalid E.N. AL-Hadidi¹

¹ Soil Science Department, College of Agriculture and Forestry, University of Mosul, Iraq

SYMBIOTIC ROLE OF LEAD RESISTANT STRAIN Acinetobacter junii Pb1 AND Vetiveria zizanioides cv. KS-1 IN ENHANCING PHYTOSTABILIZATION OF LEAD

Anamika Kushwaha and Radha Rani

Dept of Biotechnology, Motilal Nehru National Institute of Technology, Teliyarganj, Uttar Pradesh, India HIRING MICROBIAL CONSORTIA FOR BIOREMEDIATION OF HEXAVALENT

ID 149 HIRING MICROBIAL CONSORTIA FOR BIOREMEDIATION OF HEXAVALEN' CHROMIUM IN TANNERY EFFLUENT

<u>Pradeep Varathan P.</u> Neelakandan A. R. and Rajanikant G. K. School of Biotechnology, National Institute of Technology Calicut, Calicut, India

ID 163

RESPONSE OF WILLOW PLANTS DURING AN INTENSIVE GROWTH PHASE TO THE SEWAGE SLUDGE APPLICATION

Anna Wyrwicka¹ and Magdalena Urbaniak²

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² European Regional Centre for Ecohydrology of the Polish Academy of Sciences, Lodz, Poland

ID 192 PHYTOREMEDIATION USING WATER LETTUCE (PISTIA STRATIOTES L.) FOR HEXAVALENT CHROMIUM REMOVAL FROM NICKEL ORE MINES WASTEWATER Erikha Maurizka Mayzarah¹, Setyo Sarwanto Moersidik¹ and Lana Saria²

¹ School of Environmental Science, Universitas Indonesia, Indonesia

² Ministry of Energi and Mineral Resources, Indonesia

ID 198 DIFFERENT ARSENIC SPECIES IN FERNS AND FUNGI

Marek Popov¹, Veronika Zemanová², Jan Sácký¹, Simone Braeuer³, Tomáš Matoušek⁴, Tereza Leonhardt¹, Milan Pavlík², Jan Borovička⁴, Walter Goessler³, Daniela Pavlíková⁵ and <u>Pavel Kotrba¹</u>

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³ Institute of Chemistry - Analytical Chemistry, University of Graz, Graz, Austria

⁴ Institute of Analytical Chemistry of the Czech Academy of Sciences, Czech Republic

⁵ Dept. of Agro-Environ. Chemistry and Plant Nutrition, Czech University of Life Sciences, Czech Republic

ID 225 PHYTOEXTRACTION TRIALS OF ARSENIC WITH CANNABIS SATIVA, ZEA MAYS AND SELECTED INDIGENOUS BACTERIA

<u>Elisabetta Franchi</u>¹, Francesca Pedron², Martina Grifoni², Irene Rosellini², Meri Barbafieri², Paola Cosmina¹ and Gianniantonio Petruzzelli²

¹ Eni S.p.A., Renewable Energy &Environmental R&D, San Donato Milanese (MI), Italy

² Institute of Ecosystem Study, National Council of Research, Pisa, Italy

ID 235 GLUTATHIONE PRODUCTION IN Lepidium sativum L. DURING ASSISTED PHYTOEXTRACTION OF MERCURY CONTAMINATE SOILS Beata Smolińska

Dept of Biotechnology and Food Sciences, Lodz University of Technology, Poland

ID 269 ISOLATION OF ALUMINUM (AI) TOLERANT PLANT GROWTH BACTERIA AND THEIR EFFECTS ON MAIZE GROWING IN SOIL WITH LOW PH

Tamoor Ul Hassan¹, Kalsoom Bibi¹, Aftab Afzal¹, Manzoor Hussain¹ and Ghayyour Ul Hassan²

¹Department of Botany, Garden Campus Hazara University, Mansehra, Pakistan

²Department of Mathematics, Riphah International University, Islamabad

ID 379 ISOLATION AND MORPHO-MOLECULAR IDENTIFICATION OF ROOT SYMBIONTS FOR THE ECOLOGICAL RESTORATION OF SCHEFFERVILLE IRON ORE MINING SITE IN NORTHERN QUEBEC, CANADA

<u>L. Côté¹</u>, S. Boudreau², M.-E. Beaulieu³, M. Beaudoin⁴, L. Didillon⁵, H. Robitaille⁶ and D.P.Khasa¹

- ¹ Centre d'études de la Forêt, Université Laval, Canada ²Département de Biologie, Université Laval, Canada
- ³ Institute for Integrative and Systems Biology (IBIS), Université Laval, Canada
- ⁴ Viridis Terra Innovations, Québec, Canada ⁵ Tata Steel Minerals Limited, Schefferville, Canada
- ⁶ T2 Environnement, McMasterville, Canada
- ID 395 MORPHO-BIOCHEMICAL EVALUATION OF HEMP PLANTS (Cannabis sativa L.) GROWN ON METAL-CONTAMINATED SOILS

Fabrizio Pietrini, Laura Passatore, Valerio Patti, Fedra Francocci, Alessandro Giovannozzi, Angelo Massacci and <u>Massimo Zacchini</u>

CNR, Institute of Agro-environmental and Forest Biology, Italy

ID 405 EUROPE-INDIA COOPERATION ON BIO- AND PHYTO-REMEDIATION TECHNOLOGIES

<u>Serena Carloni</u>¹, Laura Passatore¹, Paras R. Pujari², Shalini Dyani², Parikshit Verma² and M. Zacchini¹

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² National Environmental Engineering Research Institute, Council of Scientific and Industrial Research, India

VERSATILE BEHAVIOUR OF BACTERIAL STRAIN Microbacterium sp. Be9 IN PRESENCE OF URANIUM AND ITS BIOREMEDIATION POTENTIAL

<u>Iván Sánchez-Castro</u>¹, Pablo Martínez-Rodríguez¹, María Pinel-Cabello¹, Germán Bosch-Estévez¹, Vannapha Phrommavanh², Michael Descostes² and Mohamed Larbi Merroun¹

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² LR&D Department, AREVA Mines, Paris, France

CONSTRUCTED WETLANDS / PHYTOREMEDIATION TECHNOLOGIES FOR ORGANIC CONTAMINANTS

- TYPHA LATIFOLIA AND PHRAGMITES AUSTRALIS AS PERSPECTIVE
 PHYTOSTABILIZERS OF MULTI-METAL CONTAMINATED SEDIMENT

 Maria Maleva, Galina Borisova, Tripti, Adarsh Kumar, Grigoriy Shiryaev and Polina Lukina
 Dept of Experimental Biology and Biotechnology, Institute of Natural Sciences and Mathematics, Ural
 Federal University, Ekaterinburg, Russia
- COMPOST AND BACTERIAL INOCULANTS SIGNIFICANTLY IMPROVE SPINACH-GROWTH ON HEAVY METAL CONTAMINATED SOIL

 Ivelina Babrikova¹, Stefan Shilev¹ and Todor Babrikov²

 Dept. Microbiology & environmental biotechnologies, Agricultural university-Plovdiv, Bulgaria
 - ¹Dept. Microbiology & environmental biotechnologies, Agricultural university-Plovdiv, Bulgaria

 ²Dept. Horticulture, Agricultural university-Plovdiv, Bulgaria
- UPTAKE OF HEAVY METALS BY VETIVER GRASS (CHRYSOPOGON ZIZANIOIDES L.) GROWN IN INDUSTRIALLY POLUTED SOILS IN BULGARIA

 Violina Angelova and Huu Quang Le
 Agricultural University-Plovdiv, Bulgaria
- ID 357 POTENTIAL OF BASIL (OCIMUM BASILICUM L.) FOR PHYTOREMEDIATION OF SOILS CONTAMINATED WITH HEAVY METALS

 Violina Angelova
 Agricultural University-Plovdiv, Bulgaria
- HEAVY METALS TOXICITY ON MICROORGANISMS AND PLANTS AND OPPORTUNITIES FOR ENVIRONMENTAL BIOREMEDIATION
 Mariana Diaconu¹, Lucian Vasile Pavel^{1,2}, Mihaela Roșca¹, Raluca Maria Hlihor^{1,3}, Markus Lenz^{4,5}, Philippe Xavier Corvini⁴ and Maria Gavrilescu^{1,6}
 - ¹ "Gheorghe Asachi" TU-Iasi, Dept of Environmental Engineering and Management, Iasi, Romania
 - ² "Gheorghe Asachi" TU-Iasi, Dept of Hydrology and Environmental Protection, Iasi, Romania
 - ³ "Ion Ionescu de la Brad" University of Agricultural Sciences and Veterinary Medicine of Iasi, Dept of Horticultural Technologies, Iasi, Romania
 - ⁴Institute for Ecopreneurship, School of Life Science, FHNW, Muttenz, Switzerland
 - ⁵Sub-Department of Environmental Technology, Wageningen University, Wageningen, The Netherlands ⁶Academy of Romanian Scientists, Bucharest, Romania
- ID 388 MUNICIPAL WASTEWATER TERTIARY TREATMENT FOR Cd, Ni AND Zn REMOVAL BY A HALOPHYTE-BASED CONSTRUCTED WETLAND MESOCOSM Rozalia Agioutanti, Eleni Manousaki, Stavros Christofilopoulos and Nicolas Kalogerakis School of Environmental Engineering, Technical University of Crete, Chania, Greece

MATHEMATICAL MODELLING OF BIOREMEDIATION PROCESSES

THEORETICAL AND EXPERIMENTAL INVESTIGATION OF THE BIODEGRADATION OF SOLITARY OIL MICRODROPLETS George E. Kapellos^{1,2}, Nicolas Kalogerakis² and Patrick S. Doyle¹

¹ Dept of Chemical Engineering, Massachusetts Institute of Technology, Cambridge MA, USA

² School of Environmental Engineering, Technical University of Crete, Chania, Greece

OIL SPILLS & MARINE LITTER – MITIGATION MEASURES

ID 415 BIOFILM STRUCTURE OF MARINE HYDROCARBON DEGRADERS IN WEATHERED CRUDE OIL

Maria Nikolopoulou¹, Angela Pasparaki², N. Pasadakis³ and Nicolas Kalogerakis¹

¹ School of Environmental Engineering, Technical University of Crete, Chania, Greece

² Institute of Molecular Biology and Biotechnology (IMBB), FORTH, Heraklion, Crete, Greece

³ School of Mineral Resources Engineering, Technical University of Crete, Chania, Greece

ID 416 THE EFFECT OF UV RADIATION AND BIOFOULING ON PLASTIC FILMS: PRELIMINARY RESULTS

<u>Despoina Barouta</u>, Katerina Savva, Katerina Karkanorachaki, Evdokia Syranidou and Nicolas Kalogerakis

School of Environmental Engineering, Technical University of Crete, Chania, Greece

ID 417 BIODEGRADATION OF MICROPLASTICS IN MICROCOSMS Giorgos Dasenakis, Panagiota Tsiota, Maria Loli, Katerina Karkanorachaki, Evdokia

Syranidou and Nicolas Kalogerakis

School of Environmental Engineering, Technical University of Crete, Chania, Greece

HIGH PURITY BIOSURFACTANTS GENERATED VIA A NOVEL PRODUCTION SCHEME USING HEAVY OIL RESIDUES AND THEIR ROLE IN OIL REMEDIATION Eleftheria Antoniou^{1,2}, Athina Mandalenaki¹ and Nicolas Kalogerakis¹

School of Environmental Engineering, Technical University of Crete, Chania, Greece

²Eastern Macedonia and Thrace Institute of Technology, Kavala, Greece

ID 419 IN SITU OIL BURNING IMPACT ON MARINE SHALLOW WATERS - A MESOCOSM EXPERIMENT

<u>Eleftheria Antoniou</u>¹, Stavros Chatzidakis¹, Iordanis Magiopoulos², Paraskevi Pitta², Giulio Zanaroli³ and Nicolas Kalogerakis¹

¹ School of Environmental Engineering, Technical University of Crete, Chania, Greece

² Institute of Oceanography, Hellenic Centre for Marine Research, Heraklion, Greece

³ Dept. of Civil, Chemical, Environmental and Materials Engineering – DICAM, University of Bologna, Italy

ID 420 OIL DISPERSANT EFFICIENCY IN SUBSEA APPLICATION

<u>Marios Daskalakis</u>, Maria Kechagia, Petros Kokolakis, Alexandra Tzamara, Eleftheria Antoniou and Nicolas Kalogerakis

School of Environmental Engineering, Technical University of Crete, Chania, Greece

POSTER PRESENTATIONS

POSTER SECTION B

(Presentation Period: Thuesday 17:00 to Thursday 13:45)

MOLECULAR BIOLOGY APPLICATIONS TO BIOREMEDIATION

- COMPARATIVE ANALYSIS OF BACTERIAL ENRICHMENT CULTURES DEGRADING AROMATIC HYDROCARBONS UNDER AEROBIC OR MICROAEROBIC CONDITIONS

 Fruzsina Révész¹, Milán Farkas¹, István Szabó², Balázs Kriszt², András Táncsics¹

 Regional University Center of Excellence in Environmental Industry, Szent István University, Hungary

 Dept of Environmental Safety and Ecotoxicology, Szent István University, Hungary
- ID 144 ENRICHMENT OF NITRATE REDUCER TOLUENE DEGRADING BACTERIA FROM A HYPOXIC BTEX CONTAMINATED SITE.

Milan Farkas¹, Fruzsina Révész², Balázs Kriszt¹, Sándor Szoboszlay¹, András Táncsics²

- ¹ Dept of Environmental Protection and Environmental Safety; Szent István University, Gödöllő, Hunga ² Regional University Center of Excellence in Environmental Industry, Szent István University, Gödöllő, Hungary
- ID 209 CHARACTERIZATION OF AIRBORNE MICROBES INSIDE THE HISTORICAL MUSEUM OF CRETE

<u>Eleftheria Katsivela</u>¹, Louiza Raisi^{1,2}, Ilias Kopanakis¹, Nicolas Kalogerakis² and Mihalis Lazaridis²

- ¹ Technological Educational Institute of Crete, Dept of Environmental and Natural Resources Engineering, Greece
- ² School of Environmental Engineering, Technical University of Crete, Chania, Greece
- ID 217
 BIOSURFACTANT- AND SIDEROPHORE-PRODUCING COLD-ACTIVE BACTERIA FROM ANTARCTICA A PERSPECTIVE FOR DEVELOPMENT OF NOVEL BIOREMEDIATION TECHNOLOGIES

<u>Michal Styczynski</u>¹, Tomasz Krucon², Anna Ciok¹, Witold Uhrynowski², Pablo de Miguel Herraiz¹, Katarzyna Grzelak¹, Lukasz Drewniak² and Lukasz Dziewit¹

- ¹ Dept of Bacterial Genetics, Institute of Microbiology, Faculty of Biology, University of Warsaw, Poland ² Lab of Environmental Contamination Analysis, Institute of Microbiology, University of Warsaw, Poland
- ID 335 HOW DO METAL NANOPARTICLES ENTER INTO Arabidopsis thaliana AND DISTURBE ITS SUBCELLULAR PROCESSES?

Jindřiška Angelini, Ruslan Klassen, Jakub Siegel and Olga Valentová

Dept of Biochemistry and Microbiology, Univ. of Chemistry and Technology, Prague, Czech Republic

- INNOVATIVE APPROACHES AND TOOLS FOR MONITORING AND BIOREMEDIATION
- PRODUCTION OF BIODEGRADABLE PLASTICS FROM POULTRY WASTE PRODUCTS

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- ID 426 IAM CHROMATOGRAPHY AS A TOOL FOR THE PREDICTION OF ECOTOXICITY OF PESTICIDES

Chrysanthos Stergiopoulos¹, Anna Tsantili- Kakoulidou², Maria Ochsenkühn- Petropoulou¹ and Fotios Tsopelas¹

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- ID 300 NOBLE METAL NANOPARTICLES AS NEW EMERGING POLLUTANTS: IMPACT ON "SOIL-PLANT SYSTEMS"

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	³ Marek Tarnawski, and ¹ Magdalena Szara
	¹ Dept of Agricultural and Environmental Chemistry, University of Agriculture in Krakow, Poland
	² European Regional Centre for Ecohydrology of the Polish Academy of Sciences, Lodz, Poland,
ID 363	³ Dept of Hydraulic Engineering and Geotechnics, University of Agriculture in Krakow, Poland PHENOL DETECTION BASED ON ELECTROCHEMICAL IMPEDANCE
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	Katerina Demnerova ¹
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- ⁴ University "Dzemal Bijedic", Agromediterranean Faculty, Mostar, Bosnia and Herzegovina
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Kuo-Hsiung Lin¹, Jun-Yan Zeng¹ and Hung-Lung Chiang²

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