

**DAY 1 - OCTOBER 1**

<b>2:00 - 3:00 PM</b>	<b>Participants registration - Groundfloor – Building 19</b>
<b>3:00 - 3:15 PM</b>	<b>Opening Ceremony – Simposium program presentatio - Plenary Hall – Engineering Department Bld. 7 - Prof. Michele Torregrassa (University of Palermo)</b>
<b>3:15 - 3:45 PM</b>	<b>Greetings from the Authorities</b>
	On. Renato Schifani – President of Sicilian Region
	Prof. Roberto Lagalla – Major of Palermo
	Prof. Massimo Midiri – Magnificent Rector, Università di Palermo
	Prof. Antonino Valenza – Director of Engineering Department, Università di Palermo
	Prof. Mariachiara Zanetti – President of GITISA, Politecnico di Torino
	Prof. Vincenzo Belgiorno – President of ANDIS, Università di Salerno

<b>3:45 - 4:10 PM</b>	<b>Greetings from the European Water Association (EWA) - "Digital tools in water and wastewater process surveillance and control" - Prof. Harsha Ratnaweera (Vice President of EWA)</b>
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<b>4:10 - 4:30 PM</b>	<b>"Armonia di contrasti", A taste of Sicily - Elisabetta Calandrino</b>
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<b>KEYNOTE - Prof. Glen Daigger - University of Michigan (USA)</b> <b>"Urban water and wastewater management: new challenges in a continuous transforming sector"</b> <b>Plenary Hall – Engineering Department Bld. 7</b> <b>04:30-05:15 PM</b>	
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**DAY 2 - OCTOBER 2**

<b>KEYNOTE - Prof. Raffaello Cossu -Univeristy of Padova</b> <b>"Perspectives and developments of Circular Economy in Municipal waste management"</b> <b>Plenary Hall – Engineering Department Bld. 7</b> <b>09:00-09:45 AM</b>	
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<b>Communications about the journal "Ingegneria dell'Ambiente"</b> <b>Prof. Roberto Canziani - Politecnico di Milano</b> <b>Plenary Hall – Engineering Department Bld. 7</b> <b>09:45-09:50 AM</b>	
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**PARALLEL PLATFORM SESSIONS - BUILDING 19**

Session:	A1	Room 9	Session name: Wastewater treatment - Anaerobic digestion	Chairs: Vincenzo Naddeo (IT) - Maria Cristina Lavagnolo (IT)		
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	029_Pasciucco	Comparison between poly aluminum chloride and aluminum sulfate in sludge anaerobic digestion: impacts and drawbacks of Al-based inorganic coagulants in a circular economy perspective	F., Pasciucco, E., Pasciucco, A., Castagnoli, R., Iannelli, I., Pecorini	Erika Pasciucco	Università di Pisa
10:15 AM	10:30 AM	043_Ciotola	Optimizing the Ultrasound Treatment of Anaerobic Digestate for its wider valorization: Impact of a Flow-Through Configuration with a Rod-Shaped Transducer	E., Ciotola, A., Cesaro, G., Esposito, F., Pirozzi	Enrica Ciotola	Università di Napoli Federico II
10:30 AM	10:45 AM	153_Pangallo	Production of Volatile Fatty Acids from the Source Separated Organic Fraction of Municipal Solid Waste and Wastewater Sludge: Semi-continuous Tests Results	D., Pangallo, M. Ferreri, A., Pedullà, D., Zema, P.S., Calabrò	Domenica Pangallo	Università Mediterranea di Reggio Calabria
10:45 AM	11:00 AM	195_Pesenti	Valorization of secondary sludge through hydrothermal carbonization and acidogenic fermentation: influence of reactors configurations and process parameters	M., Pesenti, M., Grana, A., Kiwan, D., Pirini, M. J., Hernandez Sanchez, E., Ficara, A., Turolla	Marco Pesenti	Politecnico di Milano
Session:	B1	Room 10	Session name: Drinking water - Removal and control of emerging contaminants	Chairs: Margherita Ferrante (IT) - Tiziano Zarra (IT)		
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	016_Barchiesi	Sampling devices for MPs analysis in sources of water for human consumption, with focus on the Tiber river	M., Barchiesi, F., Mangiagli, C., Di Marcantonio, A., Chiavola, M. R., Boni	Camilla Di Marcantonio	Università di Roma La Sapienza
10:15 AM	10:30 AM	173_Di bella	Spectroscopic indexes developed for controlling DBPs precursors in drinking water processes	A., Di Bella, S., Marti, P., Emiliano, F., Valero, M.J., Farré, P., Roccaro	Antonino Di Bella	Università di Catania
10:30 AM	10:45 AM	201_Oliveri Conti	Research into determining and removing microplastics from tap water: the AQUApLAST project.	G., Oliveri Conti, E., Pulvirenti, P., Rapisarda, G., Delana, G., Mancini, M. A. Coniglio, P., Castiglia, A., Azara, M., Ferrante, M., Dettori	Gea Oliveri Conti	Università di Catania
10:45 AM	11:00 AM	219_Gagliano	Innovative regeneration based on microwave irradiation for PFAS-loaded GAC	E., Gagliano, P.P., Falciglia, N.C., Birben, Y., Zaker, T., Karantli, P., Roccaro	Erica Gagliano	Università di Genova
Session:	C1	Room 11	Session name: Climate change - Climate change and water quality	Chairs: Giorgio Bertanza (IT) - Massimiliano Lega (IT)		
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	097_Costanzini	Analysing changes in precipitation trends across northern Italy's climatic divide	S., Costanzini, M., Bocculari, F., Despini, L., Lombroso, S. V., Parra, S., Teggi	Sofia Costanzini	Università di Modena e Reggio Emilia
10:15 AM	10:30 AM	132_Pezzato	Water Safety Plan as a tool for climate resilient water supply: a case study in Nepal	M., Pezzato, S., Sorlini	Maria Pezzato	Università di Brescia
10:30 AM	10:45 AM	140_Sorlini	Impacts of Climate Change on Italian Drinking Water Supply Systems: Experiences and Adaptation Strategies of Water Utilities	S., Sorlini, H.T.K., Tran, S., Mujahid	Sabrina Sorlini	Università di Brescia
10:45 AM	11:00 AM	205_Caserini	Carbon dioxide removal strategies and ocean alkalinity enhancement: a review of a developing and promising field of research	S., Caserin	Stefano Caserini	Università di Parma
Session:	D1	Room 12	Session name: Municipal and industrial waste - Energy recovery and production	Chairs: Marco Race (IT) - Mario Grosso (IT)		
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	030_Folino	Bioenergy potential from green waste through lab-scale anaerobic digestion: Thermophilic versus mesophilic conditions	A., Folino, A., Randazzo, F., Tassi, F., Tatano, S., De Rosa, A., Gambioli	Fabio Tatano	Università di Urbino
10:15 AM	10:30 AM	078_Farru	Dual-Purpose Valorization of Olive Pomace: Energy Production and Agricultural Application via Hydrothermal Carbonization	G., Farru, D., Cabras, M., Ghaslani, A., Orsini, G., Cappai	Gianluigi Farru	Università di Cagliari

10:30 AM	10:45 AM	096_Bianco	Biohydrogen production from organic waste using wine lees as inoculum for the dark fermentation process	F., Bianco, M., Race	Francesco Bianco	Università di Cassino e del Lazio Meridionale
10:45 AM	11:00 AM	109_Romano	Biohydrogen production from Municipal Solid Waste (MSW): paving the way for a sustainable future according to the circular economy and energetic transition	F., Romano, V., Naddeo, V., Belgjorno, O., Garcia-Depraect, R., Muñoz, T., Zarra	Fabiana Romano	Università di Salerno
<b>COFFEE BREAK 11:00 - 11:30 AM</b>						
<b>Session:</b>	<b>A2</b>	<b>Room 9</b>	<b>Session name:</b>	<b>Wastewater treatment - Wastewater reuse</b>	<b>Chairs:</b>	<b>Salvatore Masi (IT) - Alessandra Cesaro (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	044_Mangiagli	Interdisciplinary assessment for crops irrigation with reclaimed wastewater	F., Mangiagli, C., Di Marcantonio, M., Barchiesi, A., Martelli, F., Altobelli, E., Di Marcantonio, M., Marchiesi, L., Dallai, S., Bongiolami, J., Bartolucci, R., Romano, A., Chiavola, M. R., Boni	Francesca Mangiagli	Università di Roma La Sapienza
11:45 AM	12:00 PM	099_Filice	Development of innovative multifunctional filters for pre- and post-irrigation water treatment.	S., Filice, V., Scuderi, E. L., Sciuto, R., Farina, S., Libertino, M. A., Congiio, S., Scalese	Simona Filice	CNR Catania
12:00 PM	12:15 PM	113_Verlicchi	Risk assessment in the case of reuse of reclaimed water - A proposed methodology	P., Verlicchi, V., Grillini, V., Vilar, M. P., Castro, C., Sáez, M. A., R. P., Krzeminski	Paola Verlicchi	Università di Ferrara
12:15 PM	12:30 PM	157_Chieti	Water Re-use after treatment of industrial water resulting from the Peroxide and Peracetic Acid production	M. G., Chieti, A., Cherubini, N., Ciuccoli, D., Caterino, M., Sgroi, F., Ulivari, A. L., Eusebi, F., Fatone	Maria Grazia Chieti	Università Politecnica delle Marche
12:30 PM	12:45 PM	165_Malaguti	Water reuse opportunities and challenges for Galdieria sulphuraria cultivation	M., Malaguti, M., Carone, M. C., Zanetti, A., Tiraferri, V., Riggio	Marco Malaguti	Politecnico di Torino
12:45 PM	1:00 PM	227_Werner	Membrane Bioreactor as a cost-effective solution for water reuse and bacteria, viruses, and micro pollutants removal	A., Fischer, M., Werner, D., Schreier	Maximilian Werner	Mann + Hummel Water & Fluids Solution spa
<b>Session:</b>	<b>B2</b>	<b>Room 10</b>	<b>Session name:</b>	<b>Drinking water - Emerging challenges in operation</b>	<b>Chairs:</b>	<b>Paolo Roccaro (IT) - Danilo Spasiano (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	036_Marino	Hydrogenotrophic denitrification of nitrate-contaminated supply water using anaerobic granular sludge in up-flow bioreactors	E., Marino, A., Oliva, S., Papirio, G., Esposito, F., Pirozzi	Emanuele Marino	Università di Napoli Federico II
11:45 AM	12:00 PM	104_Cantoni	Management of the drinking water supply chain under climate change: new threats require new strategies	B., Cantoni, M., Matracchi, M., Stefanoni, B., Bastante, I., Epifani, M., Antonelli	Beatrice Cantoni	Politecnico di Milano
12:00 PM	12:15 PM	174_De Marines	A validated and upgraded turbidity robustness index aligned with the new drinking water EU Directive 2020/2184	F., De Marines, S. F., Corsino, A., Cosenza, M., Capodici, M., Torregrossa, G., Viviani	Federica De Marines	Università di Palermo
12:15 PM	12:30 PM	178_Hosseini	Effect of applied current on simultaneous bioelectrochemical denitrification and desalination of groundwater	S., Hosseini, A., Carucci, C., Armas, N., Pous, S. Puig, S., Milia	Seyedmehdi Hosseini	Università di Cagliari
12:30 PM	12:45 PM	243_Castiglione	Application of potassium ferrate to address emerging challenges in drinking water treatment plant	F., De Marines, M., Castiglione, M., Capodici, S. F., Corsino, M., Torregrossa	Maria Castiglione	Università di Palermo
12:45 PM	1:00 PM	200_Pedrazzani	Application of flow cytometry for groundwater quality monitoring within the Water Safety Plans	M., Menghini, S., Vezzoli, B., Lovisetto, R., Pedrazzani	Michele Menghini	Università di Brescia
<b>Session:</b>	<b>C2</b>	<b>Room 11</b>	<b>Session name:</b>	<b>Climate change - Climate change effects preventing and control</b>	<b>Chairs:</b>	<b>Sabrina Sorlini (IT) - Antonio Panico (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	012_Pasquarelli	Algal photobioreactors: advanced CO2 valorisation biotechnology in an ecological transition perspective to control climate change	F., Pasquarelli, G., Oliva, V., Belgjorno, V., Naddeo, T., Zarra	Federica Pasquarelli	Università di Salerno
11:45 AM	12:00 PM	049_Gori	An innovative wireless tool (LESSDRONE) for multipurpose investigations aimed at optimizing water resource recovery facilities (WRRFs) aeration process	R. Gori, I. Ducci, S. Dugheri, C. Caretti	Riccardo Gori	Università di Firenze
12:00 PM	12:15 PM	102_Luyckx	Garden streets in urban areas - pilot project in the city of Antwerp	G., Luyckx, L., De Waele	Gert Luyckx	Aquaflin nv
12:15 PM	12:30 PM	111_Tombolini	Normalized measurement proposal for carbon footprint quantification in combined sewer system	L., Tombolini, D., Caterino, L., De Simoni, J., Domizi, M., Camerini, C., Cecchetto, M., Sgroi, G., Darvini, A. L., Eusebi, F., Fatone	Lorenzo Tombolini	Università Politecnica delle Marche
12:30 PM	12:45 PM	166_Spotorno	Modelling spatial changes of Soil Organic Carbon in Flanders, Belgium	S., Spotorno, A., Gobin, F., Vanongeval, A., Del Borghi, M., Gallo	Stefano Spotorno	Università di Genova
12:45 PM	1:00 PM	229_Di Trapani	Energy efficiency in wastewater treatment plant: benchmark analysis on more than 50 plants in Sicily	D., Di Trapani, M., Carciola, S. F., Corsino, A., Cosenza, G., Di Bella, G., Gravina, L., Burrelli, A., Luciano, G., Mancini, M., Langone, D., Mattioli, L., Petta, G., Sabia, G., Sciorlino, M., Torregrossa, G., Viviani	Luigi Petta	Enea
<b>Session:</b>	<b>D2</b>	<b>Room 12</b>	<b>Session name:</b>	<b>Municipal and industrial waste - Material recovery</b>	<b>Chairs:</b>	<b>Paolo Viotti (IT) - Deborah Panepinto (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	120_Di Bella	Vermicomposting applied to OFMSW: study with laboratory-scale vermicomposters	E., Licitra, G., Di Bella	Enrico Licitra	Università di Enna Kore
11:45 AM	12:00 PM	184_Costa	Evaluation of the leaching behaviour of different types of recycled aggregates from Construction and Demolition (C&D) waste for potential utilization	L., Acampora, G., Costa, F., Lombardi, A., Paina, N., Tonolo, I., Verginelli	Luigi Acampora	Università di Roma Tor Vergata
12:00 PM	12:15 PM	190_Nisar	Fish discard valorisation into low carbon biochar-compost composite	S., Nisar, J., González-Camejo, A. L., Eusebi, F., Fatone	Salman Nisar	Università Politecnica delle Marche
12:15 PM	12:30 PM	193_Di Bianca	Biocoal production and phosphorus recovery from stabilized sewage sludge and aerobic granular sludge by the integration of slow pyrolysis, hydrothermal carbonization, and chemical leaching	M., Di Bianca, A., Salimbeni, T., Lotti, R., Campo, H. D., Cedeno, G., Haarlemmer	Marta Di Bianca	Università di Firenze
12:30 PM	12:45 PM	206_Pezzati	Pilot scale slow pyrolysis with vapours condensation for textile waste valorisation into coal and petrochemicals	A., Salimbeni, L., Rosi, N., Pezzati, B., Ciuffi, E., De Vita	Niccolò Pezzati	RE-CORD
12:45 PM	1:00 PM	215_Battaglia	Mg(OH)2 recovery from Mg2+-rich brines	G., Battaglia, M., Cardella, F., Vassallo, A., Tamburini, A., Cipollina, G., Micalè	Giuseppe Battaglia	Università di Palermo
<b>LUNCH 1:00 - 2:00 PM</b>						

Session: A3		Room 9		Session name: Wastewater treatment - Innovative approaches for monitoring and operating plants towards sustainability		Chairs: Marta Pazos Currás (ES) - Stefano Papirio (IT)	
Time	Abstract ID	Title	Authors	Speaker	Affiliation		
2:00 PM	2:15 PM	080_Pagliaccia	Development of an innovative Laser Direct InfraRed (LDIR)-based methodology for monitoring microplastics in wastewater treatment plants	B., Pagliaccia, M., Ascolese, E., Vannini, D., Fibbi, E., Carretti, C., Lubello, R., Gori	Benedetta Pagliaccia	Università di Firenze	
2:15 PM	2:30 PM	057_Gregorio	Towards sustainable municipal wastewater treatment: an analysis of energy and greenhouse gases in Apulia	S., Gregorio, G., D'Onghia, L., Lopopolo, E., Ranieri	Sarah Gregorio	Università di Bari	
2:30 PM	2:45 PM	069_Micolucci	Glucose Production from Cellulosic Sludge: Innovating Wastewater Recovery	F., Micolucci, N., Frison	Federico Micolucci	Università di Verona	
2:45 PM	3:00 PM	158_Snaird	VIT Safeguard - Establishment of a Microbiological and Process Engineering Monitoring System for Biological Wastewater Treatment Plants	J., Snaird, C., Beimfohr	Jiri Snaird	Vermicon AG	
3:00 PM	3:15 PM	162_Rizzardi	A model-based approach for estimating PAO activity in aerobic granular sludge	G., Rizzardi, A., Catenacci, R., Canziani, A., Turolla	Giacomo Rizzardi	Politecnico di Milano	
Session: B3		Room 10		Session name: Biorefineries - Biopolymers recovery		Chairs: Anuska Mosquera Corral (ES) - Vincenzo Riggio (IT)	
Time	Abstract ID	Title	Authors	Speaker	Affiliation		
2:00 PM	2:15 PM	019_Moscariello	Microbial protein from volatile fatty acids obtained through acidogenic co-fermentation of hemp and cheese whey	C., Moscarriello, S., Matassa, G., Esposito, F., Pirozzi, S., Papirio	Carlo Moscarriello	Università di Napoli Federico II	
2:15 PM	2:30 PM	033_Falzarano	Assessing the microbial and enzymatic degradation of bioplastic products	M., Falzarano, A., Poletini, R., Pomi, A., Rossi, T., Zonfa	Marica Falzarano	Università di Roma La Sapienza	
2:30 PM	2:45 PM	052_Arhin	Enhancing lactic acid generation from mixed food waste as an electron donor in lactic acid-mediated chain elongation for medium-chain fatty acids synthesis	S. G., Arhin, A., Cesaro, F., Di Capua, G., Esposito	Samuel Arhin	Università di Napoli Federico II	
2:45 PM	3:00 PM	191_Lotti	Recovery of structural extracellular polymeric substances (sEPS) from aerobic granular sludge as valuable biomaterials for the treatment of heavy metal-contaminated wastewaters	B., Pagliaccia, R., Campo, M., Severi, C., Lubello, T., Lotti	Tommaso Lotti	Università di Firenze	
3:00 PM	3:15 PM	192_Asunis	Potential of the lactate-driven polyhydroxyalkanoates (PHA) production via mixed microbial culture	F., Asunis, L., Attene, G., De Giannis, A., Muntoni	Fabiano Asunis	Università di Cagliari	
Session: C3		Room 11		Session name: Flash - Advanced treatment technologies in water and wastewater sectors		Chair: Agostina Chiavola (IT)	
Time	Abstract ID	Title	Authors	Speaker	Affiliation		
2:00 PM	2:05 PM	038_Collivignarelli	Sludge Treatment & Advanced Recycling (STAR): complete synergy between mesophilic and thermophilic processes	M. C., Collivignarelli, A., Abbà, S., Bellazzi, G., Guido, R., Pedrazzani, G., Bertanza	Alessandro Abbà	Università di Brescia	
2:05 PM	2:10 PM	022_DiCapua	Enhancing the adsorption potential of multi-layered graphene obtained from thermo-plasma expanded graphite for the removal of volatile organic compounds and dyes from water	F., Di Capua, M., Cuccarese, A., Faraji, I. M., Mancini, D., Caniani, S., Masi	Francesco Di Capua	Università della Basilicata	
2:10 PM	2:15 PM	028_Pasciucchio	Removal of recalcitrant COD from secondary tannery effluent at neutral pH by electrochemical peroxidation technology	E., Pasciucchio, F., Pasciucchio, R., Iannelli, I., Pecorini	Erika Pasciucchio	Università di Pisa	
2:15 PM	2:20 PM	066_Fazzino	Unveiling the suitability of fluorescence indexes as surrogates for the in situ monitoring of contaminants of emerging concern removal through advanced oxidation processes designed for wastewater reuse	F., Fazzino, P., Roccaro	Filippo Fazzino	Università di Catania	
2:20 PM	2:25 PM	083_Limonti	Treatment of real pharmaceutical effluents through the homogeneous Fenton process	C., Limonti, T., Andreoli, G.M., Curcio, E.G., Aucancela Riveira, A., Siciliano	Giulia Maria Curcio	Università della Calabria	
2:25 PM	2:30 PM	093_Foladori	Assessment of the removal of micrometer-scale plastics in the stages of wastewater treatment plants using flow cytometry	P., Foladori, A., Torboli, L., Bruni	Alessia Torboli	Università di Trento	
2:30 PM	2:35 PM	150_Requena Leal	Evaluation of natural and industrial rejection streams on the performance of chloralkaline electrolyzers	I., Requena, M.M., Goma, R., Granados, C.M., Fernández, J., Lobato, M.A., Rodrigo	Iñaki Requena	Universidad de Castilla-La Mancha	
2:35 PM	2:40 PM	161_Czelnik	From Aerobic Granular Sludge (AGS) to Partial Nitritation Granular Sludge (PN-GS)	J.P., Czelnik, J., Pérez, T., Lotti	Jan Pietro Czelnik	Università di Firenze	
2:40 PM	2:45 PM	185_Hernandez-Alcayaga	An overview of the available strategies for the start-up process of a MABR	N., Hernandez-Alcayaga, G., Campo, A., Cerutti, M., Zanetti, B., Ruffino	Nicolas Hernandez-Alcayaga	Politecnico di Torino	
2:45 PM	2:50 PM	130_Caretti	Removal of BTEX from water using KOH activated hydrochar produced by hydrothermal carbonization of municipal solid waste	C., Caretti, I., Ducci, R., Campo, B., Charnok, M., Puccini, F., Barontini, S., Dugheri, R., Gori	Cecilia Caretti	Università di Firenze	
2:50 PM	3:15 PM						Discussion
Session: D3		Room 12		Session name: Flash - Waste treatment and valorization		Chair: Renato Iannelli (IT)	
Time	Abstract ID	Title	Authors	Speaker	Affiliation		
2:00 PM	2:05 PM	035_Abuzir	Full-scale anaerobic digestion of source-separated blackwater in UASB at RecoLab, Helsingborg, Sweden	S., Abuzir, M., Domini, G., Bertanz, A., Davidsson, H., Kjerstadius	Saleh Abuzir	Università di Brescia	
2:05 PM	2:10 PM	039_DiCostanzo	Minimizing Sludge Production in Wastewater Treatment Plants: S4WAT solutions and new strategies for digestion improvement	N., Di Costanzo, S., Masi, D., Caniani, A., Cesaro, G., Esposito, F., Di Capua	Nicola Di Costanzo	Università degli Studi della Basilicata	
2:10 PM	2:15 PM	176_Grossule	LarWar Process - BSF LARVAE FOR WASTEWATER TREATMENT AND RESOURCE RECOVERY: state of art and recent developments	V., Grossule, R., Cossu	Valentina Grossule	Università di Padova	
2:15 PM	2:20 PM	001_Scotto	Influence of carbon to nitrogen ratio and dilution rate on microbial protein production from cheese whey	A., Scotto di Uccio, S., Matassa, A., Cesaro, G., Esposito, S., Papirio	Antonella Scotto di Uccio	Università di Napoli Federico II	
2:20 PM	2:25 PM	009_Stefano	Valorization of organic-rich waste through membrane-based technologies for volatile fatty acids recovery within the circular economy and sustainability goals	S., Cairone, A., Mahboubi, T., Zarra, V., Belgiojorno, M.J., Taherzadeh, V., Naddeo	Stefano Cairone	Università di Salerno	
2:25 PM	2:30 PM	063_Orlandella	Review of the perspectives for the valorization of orange peel wastes	I., Orlandella, S., Fiore	Iliaria Orlandella	Politecnico di Torino	
2:30 PM	2:35 PM	013_Bruno	Hydrometallurgical recycling of cobalt, manganese, and nickel from lithium-ion batteries: effects of microwave carbothermal reduction on the leaching efficiency	M., Bruno, A., Zanoletti, E., Bontempi, S., Fiore	Martina Bruno	Politecnico di Torino	
2:35 PM	2:40 PM	018_Amadei	Modelling the EU plastic value chain and assessing its environmental impacts: approaches, data sources and hotspots towards a circular plastic value chain	A. M., Amadei, L., Rigamonti, S., Sala	Andrea Martino Amadei	Politecnico di Milano	
2:40 PM	2:45 PM	024_Masi	Valorisation of alkaline industrial residues through accelerated carbonation-based treatments	A., Masi, G., Costa, F., Lombardi	Alessandra Masi	Università di Roma Tor Vergata	
2:45 PM	2:50 PM	072_Abbà	the characteristics of recycled aggregates from c&d waste: results of a monitoring activity following the end-of-waste regulation requirements	A., Abbà, S., Sorlini, A., Piccinalli, G., Plizzari	Alessandro Abbà	Università di Brescia	
2:50 PM	2:55 PM	163_Sorino	Polyolefins chemical recycling: experimental investigation of product yields in a semi-continuous pyrolysis of composting plant waste	D., Sorino, L., Bartolucci, S., Cordieri, F., Lombardi, V., Mulone	Davide Sorino	Università di Roma Tor Vergata	
2:55 PM	3:00 PM	232_Ipsate	Co-digestion of agri-food and livestock wastes for boosting biomethane potential	D., Ipsate, B., Pecorino, S.F., Corsino, G., Viviani, M., Torregrossa	Daniete Ipsate	Università di Palermo	

3:00 PM	3:05 PM	238_Illuminati	Potential Bio Hydrogen production: Co-digestion of mixed agricultural residues	F., Illuminati, R., Savio, M. C., Lavagnolo	Federico Illuminati	Università di Padova	
3:05 PM	3:15 PM	<b>Discussion</b>					
<b>POSTER SESSION 3:15 - 3:30 PM</b>							
<b>COFFEE BREAK 15:30 - 16:00 AM</b>							
<b>Session:</b>	<b>A4</b>	<b>Room 9</b>	<b>Session name:</b>	<b>Wastewater treatment - Emerging challenges in operation</b>		<b>Chairs:</b>	<b>Renato Baciocchi (IT) - Raffaella Pomi (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>		
4:00 PM	4:15 PM	082_Limonti	Improvement of Biomethane Production from Waste Activated Sludge through sonication pretreatment	C., Limonti, T., Andreoli, G.M., Curcio, E.G., Aucancela Riveira, A., Le Pera, A., Siciliano	Carlo Limonti	Università della Calabria	
4:15 PM	4:30 PM	164_Malluta	Energy efficiency and class performance of WWTPs	D., Malluta, E., Gagliano, M., Gallo, A., Del Borghi	Desara Malluta	Università di Genova	
4:30 PM	4:45 PM	146_Dlaskova	Effective Sorbents from Waste Biomass for Emerging Pollutant Removal	M., Dlaskova, M., Spacilova, O., Solcova	Martina Dlaskova	Institute of Chemical Process Fundamentals CAS, v.v.i	
4:45 PM	5:00 PM	204_Pedrazzani	What the flocs can still tell us: microfauna and filamentous bacteria examinations as invaluable tools in activated sludge operation	R., Pedrazzani	Roberta Pedrazzani	Università di Brescia	
5:00 PM	5:15 PM	235_Marotta	Experimental tests for acid flue gas emissions treatment in industrial applications.	M., Ravina, E., Marotta, G., Piccirillo, A., Cerutti, G., Zanetti, C., Mori de Oliveira, B., Ruffino, D., Panepinto, P., Marini, M., Zanetti	Edoardo Marotta	Politecnico di Torino	
5:15 PM	5:30 PM	239_Corpuz	Integration of electrochemical processes with the algae-activated sludge living membrane bioreactor for wastewater treatment	M. V., Aizza Corpuz, V., Belgiorno, K., Choo, V., Naddeo	Mary Vermi Aizza Corpuz	Università di Salerno	
<b>Session:</b>	<b>B4</b>	<b>Room 10</b>	<b>Session name:</b>	<b>Wastewater treatment - Removal and control of emerging contaminants</b>		<b>Chairs:</b>	<b>Roberto Canziani (IT) - Najla Sadfi-Zouaoui (TN)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>		
4:00 PM	4:15 PM	053_Marino	Fluorescence sensor enabled real-time monitoring of Contaminants of Emerging Concern (CEC) in reclaimed wastewater during Advanced Oxidation Processes (AOPs)	L., Marino, E., Gagliano, D., Santoro, P., Roccaro	Luigi Marino	Università di Catania	
4:15 PM	4:30 PM	055_Torboli	Spent Coffee Ground Biochar for enhanced removal of very small microplastics (1-5 µm) from polluted water: a quaternary treatment approach	A., Torboli, P., Foladori	Alessia Torboli	Università di Trento	
4:30 PM	4:45 PM	070_Diaz-Gamboa	Lagoons: Quaternary Treatment of Micropollutants in WWTPs - Case Study of UWWTD Compliance of Cabezo Beaza WWTP	L., Diaz-Gamboa, S., Martínez-López, L. M., Ayuso-Garcia, A., Lahora, I., Martínez-Alcalá	Isabel M Martínez Alcalá	Universidad Católica de Murcia	
4:45 PM	5:00 PM	142_Hydar	Landfill leachate treatment by NF/RO pilot plant for PFAS removal	A., Hydar, E., Blumenthal, M., Sgròl, M., Lazzazzara, A., Frugis, G., Cecchini, P., Crocetti, M. G., Asci, A. L., Eusebi, F., Fatone	Ali Hydar	Università Politecnica delle Marche	
5:00 PM	5:15 PM	212_Cavazzoli	Microplastics in municipal wastewaters: Efficiency of different purification processes, main removal mechanisms, and emission factors into the environment	S., Cavazzoli, F., Murari, M., Donegà, W., Tirler, K., Mair, G., Andreottola	Simone Cavazzoli	Università di Trento	
5:15 PM	5:30 PM	234_Cimino	Endocrine and metabolic disruptor effects of wastewater treatment plant effluents from conventional and membrane biological reactor systems: first results	F., Cimino, A.N., Virga, M.S., Molonia, M., Torregrossa	Francesco Cimino	Università di Messina	
<b>Session:</b>	<b>C4</b>	<b>Room 11</b>	<b>Session name:</b>	<b>Biorefineries - Biorefinery advanced methods and processes</b>		<b>Chairs:</b>	<b>Massimiliano Fabbricino (IT) - Lorenzo Bertin (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>		
4:00 PM	4:15 PM	025_Castagnoli	Selection of a mixed microbial culture for PHA production through phosphate limitation: insight into the selection process and the main kinetic parameters	A., Castagnoli, S., Malibo, G., Petroni, P., Kongjan, R., Iannelli, I., Pecconi	Alessio Castagnoli	Università di Pisa	
4:15 PM	4:30 PM	027_Puricelli	Life cycle assessment of passenger cars fed with a blend of LPG, bio-LPG, and renewable DME, and comparison with conventional and electric passenger cars	S., Puricelli, M., Eid, S., Casadei, M., Grosso, G., Lonati, L., Rigamonti, S., Cernuschi	Stefano Puricelli	Politecnico di Milano	
4:30 PM	4:45 PM	034_Areniello	Sulfide-rich biogas conversion into microbial protein and S-amino acids through a mixed culture-based fermentation process	M., Areniello, S., Matassa, G., Esposito, P. N.L., Lens	Marica Areniello	University of Galway	
4:45 PM	5:00 PM	076_Martinez	Recovery of carboxylic acids by employing sequential cation and anion exchange resins: studies using an actual effluent at semi pilot scale	G. A., Martinez, A., Negroni, M., Mancini, F., Fava, L., Bertin	Gonzato Agustin Martinez	Università di Bologna	
5:00 PM	5:15 PM	151_Sousa	Electrocatalytic acid reduction of carboxylic acids by using Cu electrode.	R.A., de Sousa, S., da Silva Mendonça de Paiva, C.A., Martinez-Huitle, E.V., dos Santos, J., Lobato, M.A., Rodrigo-Rodriguez, R., Garcia-Cervilla	Rainy Sousa	Federal University of Rio Grande do Norte	
5:15 PM	5:30 PM	180_Riggio	Innovative design and analysis of a flat panel photobioreactor featuring a customizable LED lighting system.	M., Carone, G., Frungieri, M., Zanetti, M., Vanni, V. A., Riggio	Vincenzo Riggio	Politecnico di Torino	

Session:	D4	Room 12	Session name:	Contaminated sites - Advanced sustainable remediation processes	Chairs:	Sergio Teggi (IT) - Maria Rosaria Boni (IT)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
4:00 PM	4:15 PM	087_Beretta	Lab tests for in situ bioelectrochemical remediation of Cr(VI) plumes in groundwater	G. Beretta, E., Sezenna, S., Saponaro	Gabriele Beretta	Politecnico di Milano
4:15 PM	4:30 PM	119_Lega	Enhanced Environmental Situational Awareness: exploiting advanced multispectral techniques for characterizing, monitoring, and modelling contaminated soil and water to describe pollution phenomena and support Environmental Impact Assessment (EIA)	M., Lega	Massimiliano Lega	Università di Napoli Parthenope
4:30 PM	4:45 PM	122_Licitra	Application of Low Temperature Thermal Desorption of marine sediments: operational and management assessment	E., Licitra, M.G., Giustra, M., Volpe, D., Di Trapani, A., Messineo, G., Di Bella	Enrico Licitra	Università di Enna Kore
4:45 PM	5:00 PM	134_Navas Higuero	Facing the challenge of copper polluted olive groves by electrokinetic remediation	C., Navas-Higuero, I.F., Mena, E., Lacasa, A., Manzaneda, M.A., Rodrigo, C., Sáez	Cristina Navas Higuero	Universidad de Castilla-La Mancha
5:00 PM	5:15 PM	136_Bianco	Advanced nanoremediation processes for the effective removal of complex mixtures of persistent pollutants from groundwater	C., Bianco, S., Barbero, R., Sethi	Carlo Bianco	Politecnico di Torino
5:15 PM	5:30 PM	138_Pinzin	The role of the duration of remediation procedures in reducing land consumption and brownfield regeneration	F., Pinzin, S., Scaffoni, E., Demarco, F., Araneo, E., Bartolucci, F., Pascarella, M., Vaccari	Federico Pinzin	Università di Brescia
<b>ANDIS Meeting Group - Aula Capità, Building 7 - 5:30 - 6:30 PM</b>						
<b>Young Water Professional Meeting group -Seminary room C, Building 19 - 5:30 - 6:30 PM</b>						
<b>DAY 3 - OCTOBER 3</b>						
<b>KEYNOTE - Prof. Frederic Coulon - University of Cranfield (UK)</b>						
<b>"Key Innovations and Challenges in Soil Remediation for a Sustainable Future"</b>						
<b>Plenary Hall - Engineering Department Bld. 7</b>						
<b>09:00-09:45 AM</b>						
<b>PARALLEL PLATFORM SESSIONS - BUILDING 19</b>						
Session:	A5	Room 9	Session name:	Wastewater treatment - Advanced biological wastewater treatments	Chairs:	Giorgio Mannina (IT) - Paolo Calabrò (IT)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	051_Mosquera-Corral	Salinity effects on the Purple non-sulfur bacteria biomass production	A., Mosquera-Corral, M., Bouzas, J. R., Lorenzo-Llarena, Á., Val, A., Pedrouso	Anuska Mosquera-Corral	Universidade de Santiago de Compostela
10:15 AM	10:30 AM	103_Lima	Autochthonous microalgae for the treatment of urban wastewaters	S., Lima, A., Cosenza, F., Grisafi, G., Caputo, F., Scargliati	Serena Lima	Università di Palermo
10:30 AM	10:45 AM	181_Senesi	Development of aerobic granular sludge from activated sludge in a pilot scale sequencing batch reactor treating municipal wastewater	C., Senesi, R., Campo, S., Caffaz, C., Lubello, T., Lotti	Caterina Senesi	Università di Firenze
10:45 AM	11:00 AM	210_Lesage	Effect of Membrane on Chromium Removal Efficiency in photobioreactor (PBR) containing chlorella vulgaris	H., Saeedkia, S., Helchi, M.M., Emamshoushtari, O., Tavakoli, G., Lesage, M., Heran, F., Pajoum Shariati	Farshid Pajoum Shariati	University of Montpellier
Session:	B5	Room 10	Session name:	Air quality and treatment - Air quality monitoring and impacts	Chairs:	Grazia Ghermandi (IT) - Ezio Ranieri (IT)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	031_Lonati	Long term air quality monitoring of trace toxic pollutants in the area surrounding a WRE plant	G., Lonati, S., Cernuschi, E., Sezenna	Stefano Cernuschi	Politecnico di Milano
10:15 AM	10:30 AM	177_Belkessa	Gaseous ethanol removal by homemade dielectric barrier discharge plasma reactor	N., Belkessa, A., Bouzaza, A.A., Assadi, A.Amrane	Nacer Belkessa	Ecole Nationale Supérieure de Chimie de Rennes
10:30 AM	10:45 AM	197_Cristaldi	The importance of reducing PM2.5 in the prevention of neuro-degenerative diseases. An in vitro study	A., Cristaldi, R., Pellicteri, P., Dell'Albani, V., La Cognata, M., Fiore, E., Pulvirenti, G., Oliveri Conti, M., Ferrante	Antonio Cristaldi	Università di Catania
10:45 AM	11:00 AM	237_Lonati	Impact assessment of mercury emissions from a waste-to-energy plant on local air quality	S., Cernuschi, M., Sansone, G., Lonati	Giovanni Lonati	Politecnico di Milano
Session:	C5	Room 11	Session name:	One health and environmental safety - Emerging contaminants	Chairs:	Francesca Malpei (IT) - Carmelo Maida (IT)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	002_Paoletta	Effects of Natural Organic Matter interaction with Bisphenol-A on toxicity in the seawater	G., Paoletta, M., Fabbicino, A., Locascio, L., Pontoni, M., Sirakov	Giulia Paoletta	Università di Napoli Federico II
10:15 AM	10:30 AM	065_Fazzino	Monitoring contaminants of emerging concern and bacterial communities in surface water impacted by wastewater discharge	F., Fazzino, M., Sgroi, A., Franzetti, F., Vagliasindi, G., Korshin, P., Roccaro	Filippo Fazzino	Università di Catania
10:30 AM	10:45 AM	048_Bertanza	An integrated comparison among organic matrices intended for agricultural reuse: final results of the SLURP project	G., Bertanza, A., Abbà, C., Alias, A., Amatucci, A., Binelli, S., Castiglioni, M., Fossati, C., Cruzeiro, C., Della Torre, M., Domini, D., Ferretti, G., Gilloli, S., Magni, G., Mazzoleni, M., Menghini, R., Pedrazzani, P., Schroeder, A., Simonetto, N., Steinberg, V., Ventura, S., Vezzoli, I., Zerbini	Giorgio Bertanza	Università di Brescia
10:45 AM	11:00 AM	199_Antonelli	How to deal with PFAS in urban water systems? A combination of removal strategies, fate modelling and risk assessment	J., lanes, M., Stefanoni, B., Cantoni, M., Antonelli	Manuela Antonelli	Politecnico di Milano
Session:	D5	Room 12	Session name:	Biorefineries - Bioproducts obtained from microalgae cultivation	Chairs:	Alessandra Polettini (IT) - Gaetano Di Bella (IT)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
10:00 AM	10:15 AM	014_Manzo	Single cell protein production from carbon dioxide through a consortium of microalgae and hydrogen-oxidizing bacteria	R., Manzo, S., Papiro, G., Esposito, S., Matassa	Raffaele Manzo	Università di Napoli Federico II

10:15 AM	10:30 AM	154_Maldonado	Microalgae CO2 capture a new pathway to electro-refinery.	S., Maldonado, G., Roa-Morales, R., Natividad, J., Lobato, M.A., Rodrigo-Rodrigo, R., Garcia-Cervilla	Sandra Maldonado	Universidad de Castilla-La Mancha
10:30 AM	10:45 AM	186_Sica	Harnessing the Power of Microalgae: Phenolic Compounds for Health, Sustainability, and Biorefinery Applications	C., Sica, C., Copat, C., Favara, M. D., Torres Perez, S., Inoubli, L., Falqui, G., Olivetti Conti, H., Gonzalez Dominguez, M., Ferrante	carmen sica	Università di Catania
10:45 AM	11:00 AM	228_Oliva	Microalgae to Biodiesel: A Leap Forward in Optimized Biomass Valorisation with Biorefinery Perspectives	G., Oliva, A., Buonerba, V., Belgiorno, T., Zarra, V., Naddeo	Giuseppina Oliva	Università di Salerno
<b>COFFEE BREAK 11:00 - 11:30 AM</b>						
<b>Session:</b>	<b>A6</b>	<b>Room 9</b>	<b>Session name:</b>	<b>Wastewater treatment - Physical-chemical treatments</b>	<b>Chairs:</b>	<b>Geoffroy Lesage (FR) - Massimiliano Sgroi (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speakers</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	040_Lanzetta	Continuous bioelectrochemical treatment of nitrate-containing wastewater in a double-chamber bioelectrochemical system	A., Lanzetta, R., Hajdu-Rahkama, F., Di Capua, M., Kokko, G., Esposito, F., Pirozzi, S., Papirio	Anna Lanzetta	Università di Napoli Federico II
11:45 AM	12:00 PM	067_Hayat	Treatment of hospital effluents polluted with the cytotoxic carboplatin by electrochemical oxidation	A., Hayat, J., Ortiz-Montes, J., L. da Silva Duarte, C. M., Dominguez, A., Santos, S., Cotillas	Ana Hayat	Complutense University of Madrid
12:00 PM	12:15 PM	114_Ayedi	Treatment of winery wastewater with Hydrodynamic cavitation combined with Fenton process	K., Ayedi, N. M., Ippolito, V., Innocenzi, G., Mazzietti di Celso, M., Prisciandaro	Karima Ayedi	Università di l'Aquila
12:15 PM	12:30 PM	133_Scaggiante	Advanced oxidation of organic contaminants in water by persulfate and peroxymonosulfate with ZVI bimetals	G., Scaggiante, A., Checa-Fernández, D., Zingaretti, C.M., Dominguez, A., Santos, R., Baciocchi	Giovanni Scaggiante	Università di Roma Tor Vergata
12:30 PM	12:45 PM	152_Richa	Effect of pH on electrodialysis for selective separation and purification of carboxylic acids from wastewater	M., Richa, J., Lobato, M.A., Rodrigo-Rodrigo, R., Garcia-Cervilla	Maya Richa	Universidad de Castilla-La Mancha
12:45 PM	1:00 PM	156_Caterino	Pilot-scale monitoring of AOP processes by Fluorescence and UV Absorbance on-line Sensors	D., Caterino, M., Sgroi, J., Gonzalez Camejo, N., Ciuccoli, C., Giansanti, C., Palermo, A.L., Eusebi, F., Fatone	Daniete Caterino	Università Politecnica delle Marche
<b>Session:</b>	<b>B6</b>	<b>Room 10</b>	<b>Session name:</b>	<b>Green Economy and Smart Cities - Green Economy and Smart Cities</b>	<b>Chairs:</b>	<b>Adriana Del Borghi (IT) - Monia Niero (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speakers</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	003_Baltrocchi	CO2 emissions and primary energy used in thermoplastic with flame retardant process production: a Life Cycle Assessment comparison between three compounds	A. P. D., Baltrocchi, D., Lotti, M. C., Miino, L., Maggi, C., Morosini, F., Conti, E. C., Rada, V., Torretta	Alberto Pietro Damiano Baltrocchi	Università dell'Insubria
11:45 AM	12:00 PM	060_Niero	Life Cycle Assessment as a decision support tool for the implementation of circular economy and decarbonization strategies in the steel industry	M., Niero, F., Rossi, F., Albano, F., Iraldo, M., Frey	Monia Niero	Scuola Sant'Anna di Pisa
12:00 PM	12:15 PM	139_Campo	Preliminary Results of Laboratory Tests on Hydrogen Production from Slag and Surplus Heat in Steel Plants	G., Campo, G., Zanetti, M. C., Zanetti	Giuseppe Campo	Politecnico di Torino
12:15 PM	12:30 PM	172_Barreiro	RESLISTORM - Resilience Framework and Tool for Urban Stormwater Services	J., Barreiro, F., Ferreira, J., Saldanha Matos	Filipa Ferreira	Universidade de Lisboa
12:30 PM	12:45 PM	203_Menghini	Product Environmental Footprint assessment of smart technical clothing	M., Menghini, I., Cavallotti, M., Ferreri, E., Bollati, R., Pedrazzani, C., Di Iaconi, G., Mascolo	Michele Menghini	Università di Brescia
12:45 PM	1:00 PM	228_Lavagnolo	Economic valuation of ecosystem services in the waste management framework	M.C., Lavagnolo, G., Felici	Maria Cristina Lavagnolo	Università di Padova
<b>Session:</b>	<b>C6</b>	<b>Room 11</b>	<b>Session name:</b>	<b>Contaminated sites - Modelling, monitoring tools and risk assessment</b>	<b>Chairs:</b>	<b>Rajandrea Sethi (IT) - Anna Laura Eusebi (IT)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speakers</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	050_Lopopolo	Helianthus annuus assessment for nickel phytoremediation	L., Lopopolo, G., D'Onghia, S., Gregorio, E., Ranieri	Luigi Lopopolo	Università di Bari
11:45 AM	12:00 PM	081_Lupu	Risk assessment approach for heavy metals contaminated sites of mining waste storage	R., Lupu, I.A., Istrate, F., Nenciu, D.M., Cocăță	Rusalina Lupu	University of Science and Technology Politechnica of Bucharest
12:00 PM	12:15 PM	088_Verginelli	Development of screening tools for the risk assessment applied to contaminated sites	I. Verginelli	Iason Verginelli	Università di Roma Tor Vergata
12:15 PM	12:30 PM	100_Pitardi	Python-QGIS-based Model for Assessing and Mapping Subsurface Volatile Organic Compound (VOC) Emissions	M., Pitardi, S., Costanzini, N., Tonolo, A., Ceccoli, S., Teggi, I., Verginelli, S., Berardi	Marco Pitardi	Università di Modena e Reggio Emilia
12:30 PM	12:45 PM	110_Ceccconi	Radon Gas Monitoring in the Headspace of Groundwater Wells for the Evaluation of Residual LNAPL Contamination	A., Ceccoli, I., Verginelli, R., Baciocchi, C., Lanari, F., Villani, G., Bonfedi	Alessandra Ceccoli	Università di Roma Tor Vergata
12:45 PM	1:00 PM	128_Fazzino	Numerical modeling of in situ thermal desorption for soil remediation: preliminary results	F., Fazzino, A., Gagliano, F., Vagliasindi, P.P., Falciglia	Filippo Fazzino	Università di Catania
<b>Session:</b>	<b>D6</b>	<b>Room 12</b>	<b>Session name:</b>	<b>Biorefineries - Bioproducts from mixed civil and industrial wastewater</b>	<b>Chairs:</b>	<b>Francesco Lombardi (IT) - Abdeltif Amrane (FR)</b>
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speakers</b>	<b>Affiliation</b>	
11:30 AM	11:45 AM	005_Dessi	An innovative biorefinery approach for selective hexanoic acid production from wine lees	P., Dessi, M., Romans-Casas, E., Perona-Vico, M., Tedesco, H. V. M., Hamelers, I., Bañeras, M. D., Balaguer, S., Puig	Paolo Dessi	Università di Napoli Federico II
11:45 AM	12:00 PM	056_Policastro	Dark fermentation of winery by-products using indigenous microbial cultures	G., Policastro, M., Race, M., Fabbriano	Grazia Policastro	Università Pegaso
12:00 PM	12:15 PM	090_Pecorini	Investigation of low temperature thermal pretreatment on VFA production from the dark fermentation of organic waste	I., Pecorini, F., Pasclucco, E., Pasclucco, A., Castagnoli, R., Palmieri, A., Panico, R., Iannelli	Isabella Pecorini	Università di Pisa
12:15 PM	12:30 PM	217_Luciano	Enhancing material and energy recovery through WtE industrial symbiosis in South Europe regions	A., Luciano, G., Mancini, L., Lombardi, P., Viotti, D., Fino	Giuseppe Mancini	Università degli Studi di Catania
12:30 PM	12:45 PM	126_Santus	Hydrogenotrophic methanogens activity batch tests: insights from an experimental and modelling approach	A., Santus, I., Bonato, A., Catenacci, F., Malpei	Anna Santus	Politecnico di Milano
12:45 PM	1:00 PM	198_Di Benedetto	Upcycling AD by-products to single-cell proteins: laboratory validation of two bioprocesses based on digestate and waste off-gas utilization	F., Di Benedetto, S., Canera, R., Muñoz, A., Turolla, E., Ficara	Francesca Di Benedetto	Politecnico di Milano
<b>LUNCH 1:00 - 2:00 PM</b>						

Session:	A7	Room 9	Session name:	Flash - Process optimization and sustainability	Chair:	Vincenzo Torretta (IT)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
2:00 PM	2:05 PM	011_Carnevale	Life cycle assessment of a new approach for micro-PET recovery from domestic laundry wastewater and subsequent valorisation into amino acids	M. Carnevale Miino, A. P. D., Baltrochi, F., Conti, E. C., Rada, V., Torretta	Marco Carnevale Miino	Università dell'Insubria
2:05 PM	2:10 PM	079_Kumar	From dissipative to assimilative wastewater treatment: the potential of hydrogen-oxidizing bacteria to upcycle nitrogen and mitigate greenhouse gas emissions from wastewater	M. Kumar, S., Matassa, C., Belloni, F., Pirozzi, G., Esposito, S., Papirio	Manoj Kumar	Università di Napoli Federico II
2:10 PM	2:15 PM	101_Castro	Sustainable Electrochemical Reduction of contaminants of emerging concern and Pathogens in WWTP effluent for Irrigation of Crops (SERPIC)	M. P., Castro, I. F., Mena, Á., Moratalla Tolosa, P., Verlicchi, C. S., Santos, A. I., Gomes, V. J. P., Vilar, A., Wolf, P., Krzeminski, M., Botes, J., Gäbler, C., Sáez, M. A., Rodrigo	Paola Verlicchi	Università di Ferrara
2:15 PM	2:20 PM	129_Torrejón Guerrero	Application of diverse types of hydrogels as separators in microbial fuel cells	I., Torrejón, C., Martín, R., Granados, A., Rodríguez, M. A., Rodrigo, E., Vázquez, C. M., Fernández	Isabel Torrejón Guerrero	Universidad de Castilla-La Mancha
2:20 PM	2:25 PM	135_Ravina	Testing low-cost materials for nutrients adsorption in wastewater	M., Ravina, E., Marotta, M. C., Zanetti	Marco Ravina	Politecnico di Torino
2:25 PM	2:30 PM	218_Campisi	A chain for the treatment of oilfield produced waters: case study and experimental analysis	G., Campisi, A., Sorrenti, A., Cosenza, S., Randazzo, S. F., Corsino, M., Capodici, A., Tamburini, G., Micale	Giovanni Campisi	Università di Palermo
2:30 PM	2:35 PM	062_Nastasi	Remanufacturing of off-road vehicles spare parts: process analysis and environmental assessment	L., Nastasi, S., Fiore	Livia Nastasi	Politecnico di Torino
2:35 PM	2:40 PM	169_Fiaschi	Combining material flow analysis and life cycle assessment to support decision-making of municipal solid waste management: a case study in Catalonia	S., Fiaschi, C., Lubello, L., Talens Peiro	Stefano Fiaschi	Università di Firenze
2:40 PM	2:45 PM	004_Ceraso	Indicators and parameters for the Life Cycle Sustainability Inventory of Municipal Solid Waste Management Systems	A., Ceraso, A., Cesaro	Annachiara Ceraso	Università di Napoli Federico II
2:45 PM	2:50 PM	032_Premathilake	Life cycle-based assessment of graphite recovery from spent Li-ion batteries	D. S., Premathilake, W. A. M. A. N., Illankoon, A. B., Botelho Junior, D., Croce Romano Espinosa, M., Vaccari	Dilshan Sandaruwan Premathilake	Università di Brescia
2:50 PM	2:55 PM	071_Martinez-Alcalá	Carbon Lifecycle Management Through Innovative Forest Land Management and Regulatory Frameworks	I., Martinez-Alcalá, J. L., Durán-Sánchez, R., Martínez-Alpañez, V., Meseguer-Sánchez	Victor Meseguer-Sanchez	Universidad Católica de Murcia
2:55 PM	3:00 PM	118_F. Mena	Removal of pesticides from olive orchards through electrochemical generation of ozone and hydrogen peroxide	I. F., Mena, C., Navas-Higuero, E., Lacasa, A. J., Manzaneda, M. A., Rodrigo, C., Sáez	Cristina Navas-Higuero	Universidad de Castilla-La Mancha
3:00 PM	3:05 PM	240_Mannina	Resource recovery hub for net zero carbon and climate change mitigation	D., Di Trapani, V., Alduina, L., Badalucco, M., Carnesi, A., Cosenza, Y., Di Leto, P., Bulacio Fisher, G., Gallo, A., Laudicina, A., Mineo, P. M., Bosco Mofatto, S. M., Muscarella, G., Mannina	Alida Cosenza	Università di Palermo
3:05 PM	3:15 PM					
<b>Discussion</b>						
Session:	B7	Room 10	Session name:	Flash - Emerging environmental risk and control	Chair:	Giovanni Esposito (IT)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
2:00 PM	2:05 PM	121_Raso	Characterization and control of particulate matter in ambient air: instruments, techniques and interferences	L., Raso, V., Marino, M. R., Della Rocca, V., Belgiojoso, V., Naddeo, T., Zarra	Lorenzo Raso	Università di Salerno
2:05 PM	2:10 PM	194_Baccini	Pollutant concentrations around Vegetative Environmental Buffers for livestock facilities: onsite surveys for two sites	L., Baccini, E., Cortus, F. G. A., Vagliasindi	Luca Baccini	Università di Catania
2:10 PM	2:15 PM	224_Hajjaji	Continuous removal of VOCs and bacteria in a LED planar reactor: effect of operating parameters and kinetics modeling	M. A., Hajjaji, A., Bouzaza, A., Amrane, A., Hajjaji, A., Assadi	Mohamed Aziz Hajjaji	Ecole Nationale Supérieure de Chimie de Rennes
2:15 PM	2:20 PM	008_Leombruni	Full-scale Application in Italy of a Combined ISCR and ERD Technology for the treatment of an Aerobic Aquifer Impacted with Tetrachloromethane and Chloroform	A., Leombruni, M., Mueller	Alberto Leombruni	Evonik Operation GmbH
2:20 PM	2:25 PM	026_Spasiano	Remediation of sediments contaminated by microplastics: a first approach	D., Spasiano, M., Soufizadeh, R., Morello, A., Ferraro, U., Frattino	Danilo Spasiano	Politecnico di Bari
2:25 PM	2:30 PM	058_LaCecilia	Towards integrated plant-surface-subsurface hydrological modeling of bioreactive solute transport	D., La Cecilia, C., Lauvernet, C., Paniconi, M., Camporese	Daniele la Cecilia	Università di Padova
2:30 PM	2:35 PM	216_Russo Tiesi	Surfactant enhanced remediation of marine sediments using anionic, non-ionic and mixed surfactants: role of operational conditions	M., Russo Tiesi, G., Di Bella, E., Licitra, G., Vinti, G., Viviani, D., Di Trapani	Manuela Russo Tiesi	Università di Palermo
2:35 PM	2:40 PM	141_Tran	Assessing the Impact of Climate Change on Water Quality Parameters in the Brescia Water Supply System	H. T. K., Tran, A., Silvia, S., Sorlini	Thi Kim Hoan Tran	Università di Brescia
2:40 PM	2:45 PM	225_Castiglione	Vulnerability Scenario Characterization using a Natch Indicator and a Territorial Multi-hazard Approach.	M., Castiglione, S. F., Corsino, M., Torregrossa	Maria Castiglione	Università di Palermo
2:45 PM	2:50 PM	241_Carnesi	Water reuse from wastewater: comparison between MBR and tertiary filtration processes	M., Carnesi, P. M., Bosco Mofatto, A., Mineo, A., Cosenza, D., Di Trapani, G., Mannina	Marika Carnesi	Università di Palermo
2:50 PM	2:55 PM	242_Cosenza	Transition to circular economy: the case study of Corleone wastewater treatment plant	A., Cosenza, M., Carnesi, D., Di Trapani, H., Gülhan, A., Mineo, P. M., Bosco Mofatto, G., Mannina	Paulo Bosco Mofatto	Università di Palermo
2:55 PM	3:00 PM	123_Corsino	Nutrients removal in intermittently aerated IFAS systems: effects of operating conditions	S. F., Corsino, E., Licitra, M., Torregrossa, G., Di Bella	Santo Fabio Corsino	Università di Palermo
3:00 AM	3:15 PM					
<b>Discussion</b>						
Session:	C7	Room 11	Session name:	Contaminated sites - Contaminated soil and water: remediation	Chairs:	Federico Vagliasindi (IT) - Aurora Santos (ES)
Time	Abstract ID	Title	Authors	Speaker	Affiliation	
2:00 PM	2:15 PM	007_Leombruni	Application of an All-In-One ISCO Technology for the treatment of Monochlorobenzene, BTEX and Chloroform in groundwater at a Former Pharmaceutical Facility in Italy	A., Leombruni, B., Smith, M., Mueller	Alberto Leombruni	Evonik Operation GmbH
2:15 PM	2:30 PM	037_Maraviglia	Advances in marine sediments remediation: performance comparison between activated carbon and single cell proteins as adsorbents in active capping for heavy metals removal in seawater	C., Maraviglia, S., Matassa, A., Cesaro, F., Pirozzi	Chiara Maraviglia	Università di Napoli Federico II
2:30 PM	2:45 PM	068_DelaFuente	Effective Degradation of PAHs in Polluted Emulsions and Surfactant Recovery by Fenton and Solar Photo-Fenton Technologies	Y., Moreno-DelaFuente, K., Ayedi, M., Herralz-Carboné, M., Prisciandaro, S., Cotillas, C. M., Domínguez, A., Santos	Yaiza Moreno de la Fuente	Complutense University of Madrid
2:45 PM	3:00 PM	074_Fernandez-Cascan	Electrochemically assisted remediation of a highly chlorinated organic polluted sludge: a full-scale case study	J., Fernandez-Cascan, J., Isidro, A., Tiban-Anrango, C., Saez, J., Guadaño, M. A., Rodrigo	Cristina Sáez	Universidad de Castilla-La Mancha

3:00 PM	3:15 PM	098_Moratalla	Effect of Electric Field Intensity and Polarity Reversibility on the Transport of Hexachlorocyclohexanes in Contaminated Real Silt by Electrokinetic Techniques	Á. Moratalla, J., Isidro, J., Fernández-Cascán, J., Guadaño, M. A., Rodrigo, C., Sáez	Ángela Moratalla	Universidad de Castilla-La Mancha
<b>Session:</b>	<b>D7</b>	<b>Room 12</b>	<b>Session name:</b> <b>Municipal and industrial waste - Anaerobic digestion</b>	<b>Chairs:</b> <b>Barbara Ruffino (IT) - Fabio Tatano (IT)</b>		
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
2:00 PM	2:15 PM	045_Ferraro	Pre-treatment strategy for polyactic acid biodegradability enhancement in anaerobic digestion process	A., Ferraro, D., Giandomenico, R., Morello, D., Spasiano, U., Fratio	Alberto Ferraro	Politecnico di Bari
2:15 PM	2:30 PM	091_Zonfa	Application of an anaerobic sequencing batch reactor to control cheese whey fermentation towards bio-H2 production	T., Zonfa, M., Falzarano, A., Poletini, R., Pomi, A., Rossi	Tatiana Zonfa	Università di Roma La Sapienza
2:30 PM	2:45 PM	144_Ferri	Mater-Bi degradation during the semi-continuous anaerobic digestion of excess sludge and organic fraction of municipal solid waste	M., Ferri, A., Pedullà, P. S., Calabrò	Mariastella Ferri	Università Mediterranea di Reggio Calabria
2:45 PM	3:00 PM	155_Jenicek	Opportunities and challenges of combining sewage sludge thermal hydrolysis with thermophilic anaerobic digestion	P., Jenicek, A., Magrova, L., Appels	Pavel Jenicek	University of Chemistry and Technology of Prague
3:00 PM	3:15 PM	167_Khanzada	Strategic Enhancement of Lactic Acid Yields through Cavitation Pre-treatment in Food Waste Digestion	A.K., Khanzada, J., Makinia	Aisha Khan Khanzada	Gdansk University of Technology
<b>POSTER SESSION 3:15 - 3:30 PM</b>						
<b>COFFEE BREAK 15:30 - 16:00 AM</b>						
<b>Session:</b>	<b>A8</b>	<b>Room 9</b>	<b>Session name:</b> <b>Wastewater treatment - Sludge management optimization strategies</b>	<b>Chairs:</b> <b>Alessandra Carucci (IT) - Francesco Pirozzi (IT)</b>		
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
4:00 PM	4:15 PM	015_Morello	Minimization of sewage sludge production through the application of the OSA process	R., Morello, F., Di Capua, D., Spasiano, G., Esposito, F., Pirozzi, U., Fratio	Francesco Di Capua	Università della Basilicata
4:15 PM	4:30 PM	021_Collivignarelli	Removal of emerging pollutants using biochar recovered from sewage sludge	M. C., Collivignarelli, M., Baldi, S., Bellazzi, S., Sorlini, A., Papetti, C., Milanese	Stefano Bellazzi	Università di Pavia
4:30 PM	4:45 PM	085_Croce	Life Cycle Assessment applied to sludges from wastewater treatment plant	L., Croce, P., Viotti, F., Tatti	Lavinia Croce	Università di Roma La Sapienza
4:45 PM	5:00 PM	092_Zoccali	Unravelling the impact of thermo-alkaline pre-treatment of sewage sludge on the microplastics contained	A., Zoccali, A., Vianello, F., Malpei, J., Vollertsen	Alberto Zoccali	Politecnico di Milano
5:00 PM	5:15 PM	095_Ruffino	Biological vs. thermo-alkali pre-treatments: which is the best option for the valorization of WAS? Experimental tests and techno-economic analysis	B., Ruffino, G., Campo, A., Cerutti, M., Zanetti	Barbara Ruffino	Politecnico di Torino
5:15 PM	5:30 PM	131_Domini	Exploring alternate aeration strategies for improved sewage sludge stabilization	M., Domini, G., Bertanza	Marta Domini	Università di Brescia
<b>Session:</b>	<b>B8</b>	<b>Room 10</b>	<b>Session name:</b> <b>Air quality and treatment - Emissions dispersion model</b>	<b>Chairs:</b> <b>Stefano Cernuschi (IT) - Giovanni Lonati (IT)</b>		
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
4:00 PM	4:15 PM	064_Bigi	Variability of equivalent Black Carbon aerosol in urban Barcelona by pedestrian mapping	A., Bigi, G., Veratti, A., Buruah, L., Renzi, M., Mazzini, L., Di Liberto, A., Marioni, M., Pandolfi, G., Ghermandi	Alessandro Bigi	Università di Modena e Reggio Emilia
4:15 PM	4:30 PM	073_Settimi	Influence of density-driven advection on vapor intrusion of chlorinated volatile organic compounds	C., Settimi, I., Verginelli, D., Zingaretti, R., Baciocchi	Clarissa Settimi	Università di Roma Tor Vergata
4:30 PM	4:45 PM	105_Veratti	Micro-aethalometers and dispersion modeling for the identification of sources and levels of black carbon in a city of the central Po valley	G., Veratti, A., Bigi, M., Stortini, S., Teggi, G., Ghermandi	Giorgio Veratti	Università di Modena e Reggio Emilia
4:45 PM	5:00 PM	159_Panepinto	Consequences and risk modeling of natech in industrial environments	D., Panepinto, M., Ravina, M.C., Zanetti	Deborah Panepinto	Politecnico di Torino
5:00 PM	5:15 PM	202_Baccini	Modelling of Vegetative Environmental Buffer (VEB) effects on gas concentrations through AERMOD-View: comparison between observed and modelled data	L., Baccini, E., Cortus, F. G. A., Vagliasindi	Luca Baccini	Università di Catania
5:15 PM	5:30 PM					
<b>Session:</b>	<b>C8</b>	<b>Room 11</b>	<b>Session name:</b> <b>Contaminated sites - Contaminated soil and water: remediation</b>	<b>Chairs:</b> <b>Mariachiara Zanetti (IT) - Pietro Paolo Falciglia (IT)</b>		
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
4:00 PM	4:15 PM	107_Lăcureanu	Metal uptake and transport within Sorghum sp. from mining waste contaminated sites	A. M., Lăcureanu, M. F., Ioniță, E., Dunca, L. D., Robescu, D. M., Cocârță	Diana Cocarta	University of Science and Technology Politehnica of Bucharest
4:15 PM	4:30 PM	116_Vaccari	Treatment of hydrocarbon-contaminated soil with biosurfactants obtained from agricultural waste	T., Ambaye, A., Franzetti, A., Bava, M., Vaccari	Teklit Ambaye	Università di Brescia
4:30 PM	4:45 PM	143_De Marines	Chemical enhanced oxidation with surfactants: a comparison of the effectiveness of two oxidants for the remediation of hydrocarbon-contaminated soils	F., De Marines, M., Capodici, G., Di Bella, E., Licitra, G., Viviani, D., Di Trapani	Federica De Marines	Università di Palermo
4:45 PM	5:00 PM	125_Zingaretti	Degradation of chlorinated solvents vapors in the unsaturated zone through horizontal permeable reactive barriers	D., Zingaretti, C., Settimi, I., Verginelli, R., Baciocchi	Daniela Zingaretti	Università di Roma Tor Vergata
5:00 PM	5:15 PM	160_Falciglia	The use of Liquid Activated Carbon (LAC) in microwave thermal treatment of PAH-contaminated soils: laboratory decontamination and columns leaching tests	P. P., Falciglia, G., De Quidi, M., Granetto, T., Tosco, R., Sethi, F. G. A., Vagliasindi	Pietro Paolo Falciglia	Università di Catania
5:15 PM	5:30 PM	233_Carabillò	Degradation of 1,2-dichloroethane in real polluted groundwater under aerobic and anaerobic laboratory-scale conditions	M., Carabillò, M., Capodici, V., Catania, G., Di Bella, D., Di Trapani, M. G., Giustra, P., Quatrini, R., Scaffaro, L., Scirè Calabrisotto, G., Viviani	Michele Carabillò	Università di Palermo
<b>Session:</b>	<b>D8</b>	<b>Room 12</b>	<b>Session name:</b> <b>Municipal and industrial waste - Advanced waste processes and management</b>	<b>Chairs:</b> <b>Aldo Muntoni (IT) - Marco Ragazzi (IT)</b>		
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
4:00 PM	4:15 PM	089_Vahidzadeh	Modelling material flow networks for industrial symbiosis in the metallurgical context	R., Vahidzadeh, G., Bertanza, M., Domini	Reza Vahidzadeh	Università di Brescia
4:15 PM	4:30 PM	094_Dolci	Environmental and economic analyses of an innovative automatic system for sorting waste in public areas: case study of an airport	G., Dolci, A., Manea, G., Cavenago, C., Tua, M., Grosso	Giovanni Dolci	Politecnico di Milano
4:30 PM	4:45 PM	137_Ragazzi	Perspectives of residual municipal solid waste management from an Italian case study	M., Ragazzi, M., Tubino, L., Adami, M., Schiavon	Marco Schiavon	Università di Trento
4:45 PM	5:00 PM	145_Cioli	Risk assessment applied to a quarry backfilling: comparison between the use of different filling materials	F., Cioli, S., Sorlini, M., Vaccari	Flavio Cioli	Università di Brescia
5:00 PM	5:15 PM	170_Beggio	Assessing Uncertainty in Waste Characterization: Experimental Analysis of Variability in Plastic Waste Sampling and Analysis	G., Beggio, M.C., Lavagnolo	Giovanni Beggio	Università di Padova

5:15 PM	5:30 PM	179_Riggio	A Combined Approach to Microalgae Cultivation: Efficiency and Carbon Capture in South Sardinia, a case study.	V. A. Riggio, D., Panepinto, M., Zanetti	Vincenzo Riggio	Politecnico di Torino
<b>GITISA Meeting Group - Aula Capito, Building 7 - 5:30 - 6:30 PM</b>						
<b>GALA DINNER - 8:30 - 12:00 PM</b>						
<b>DAY 4 - OCTOBER 4</b>						
<b>PARALLEL PLATFORM SESSIONS - Plenary Hall - Engineering Department Bld. 7</b>						
<b>Session:</b>	<b>S9</b>	<b>Aula magna</b>	<b>Session name: One health and environmental safety - Advanced monitoring and risk assessment</b>		<b>Chairs: Francesco Fatone (IT) - Paola Verlicchi (IT)</b>	
<b>Time</b>	<b>Abstract ID</b>	<b>Title</b>	<b>Authors</b>	<b>Speaker</b>	<b>Affiliation</b>	
9:30 AM	9:45 AM	017_DiMarcantonio	Advanced Monitoring of Urban Rivers: an integrated perspective	C., Marcantonio, M., Barchiesi, F., Mangiagli, M. R., Boni, R., Magini, G., Sappa, P., Viotti, M., Seminara, S., De Bonis, E., Di Marcantonio, M., Marchiesi, L., Dallal, A., Chiavola	Camilla Di Marcantonio	Università di Roma La Sapienza
9:45 AM	10:00 AM	023_Acampora	A risk-based methodology based on the results of leaching and ecotoxicological tests for assessing the environmental compatibility of the use of products from bottom ash treatment	L., Acampora, G., Costa, F., Lombardi, L., Maggi, C., Mensi, S., Messinetti, E., Tediosi, I., Verginelli	Giulia Costa	Università di Roma Tor Vergata
10:00 AM	10:15 AM	047_D'Elia	One Health: air pollution and human health under the environmental perspective	L., D'Elia, G., Oliva, T., Zarra, V., Belgiorno, V., Naddeo	Lucia D'Elia	Università di Salerno
10:15 AM	10:30 AM	086_lanes	The fate of micropollutants in the water environment from sources to humans: planning removal treatments and assessing the risk in a one-health approach	J., lanes, L., Penserini, E., Sezenna, S., Saponaro, B., Cantoni, M., Antonelli	Manuela Antonelli	Politecnico di Milano
10:30 AM	10:45 AM	061_LaCecilia	Remote sensing mapping of protected agriculture in Italian agricultural soils using a Sentinel-2 Imagery-based workflow	D., La Cecilia, F., Despini, S., Teggi	Francesca Despini	Università di Modena e Reggio Emilia
10:45 AM	11:00 AM	183_Pulvirenti	Innovative system for the well-being and protection of fish and consumers	E., Pulvirenti, G., Oliveri Conti, P., Rapisarda, M., Castrogiovanni, C., Favara, A., Cristaldi, M., Ferrante	Eloise Pulvirenti	Università di Catania
11:00 AM	11:15 AM	213_Teggi	The use of vegetation indices and proximity models in the study of population exposure to green spaces	N., Martini, S., Costanzini, F., Despini, S., Teggi, T., Filippini, M., Vinceti	Niccolò Martini	Università di Modena e Reggio Emilia
11:15 AM	11:30 AM	222_Sadfi-Zouaoui	Selection of fungi for the biofertilisation of phosphorus (Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> ) in arid soils	R., Werheni Ammeri, S., El Bouali, R., Hammami, N., Sadfi-Zouaoui	Rim Werheni Ammeri	University of Tunis El Manar
<b>KEYNOTE - Dr. Valentina Fuscoletti - Italian National Institute of Health</b> <b>"Environmental prevention and care interventions from the perspective of One Health"</b> <b>Plenary Hall - Engineering Department Bld. 7</b> <b>11:30-12:15</b>						
<b>CLOSING CERIMONY</b> <b>Prof. Michele Torregrossa - University of Palermo</b> <b>Plenary Hall - Engineering Department Bld. 7</b> <b>12:15 - 12:30</b>						
<b>LIGHT LUNCH 12:30 - 13:30 PM</b>						