

# PROGRAM

FRIDAY > 8 SEPT

	ROOM: AUDITÓRIO - CHAIR: HUGO SILVA	ROOM: ANFITEATRO C - CHAIR: ANA JÚLIA CAVALLEIRO	ROOM: ANFITEATRO B - CHAIR: LICÍNIO GANDO-FERRIRA
	<b>SESSION G1: RECYCLING OF WASTES AND RESOURCES RECOVERY</b>	<b>SESSION G2: BIOLOGICAL TREATMENT TECHNIQUES</b>	<b>SESSION G3: WASTE TREATMENT AND VALORIZATION TECHNOLOGIES</b>
9h00	<b>L. MARCHIORI</b> ANALYSIS OF THE CHEMICAL PROPERTIES OF ALMOND AND WALNUT SHELLS FOR USE IN EARTHWORKS	<b>A. RIBEIRO</b> PIG MEAT PROCESSING WASTES STABILIZATION: EFFECT ON THE MICROBIOLOGICAL PROPERTIES	<b>N. GAIBOR</b> GWP ASSESSMENT OF STRUCTURAL CONCRETE WITH EAFS AGGREGATES AND CERAMIC RESIDUE
9H15	<b>M. J. SILVA</b> PHOTOCATALYTIC DEGRADATION OF PARABENS BY P25 SUPPORT IN PET SHEETS FROM WATER BOTTLES	<b>C. SANTOS</b> APPROACH FOR WATER SUSTAINABILITY IN WINE PRODUCTION BY REUSING ITS EFFLUENTS FOR MICROALGAE CULTIVATION	<b>R. MARTINS</b> PHOTO-FENTON TREATMENT OF WASTEWATER FROM OLIVE OIL EXTRACTION INDUSTRY
9H30	<b>H. SCHALCHLI</b> POTATO BYPRODUCT AS SUBSTRATE FOR OBTAINING MICROBIAL PIGMENTS THROUGH SUBMERGED FERMENTATION	<b>A. M. PINHEIRO</b> PRELIMINARY ANALYSIS OF THE METAL SPECIATION IN ANAEROBIC GRANULAR SLUDGE BY MODIFIED TESSIER PROCEDURE	<b>J. LINCHO</b> EFFECT OF REUSING ELECTROLYTES ON TiO2 NANOTUBES ACTIVITY AND MORPHOLOGY
9H45	<b>H. PASSOS</b> URBAN MINING WITH IONIC-LIQUID-BASED ACIDIC AQUEOUS BIPHASIC SYSTEMS FOR THE RECYCLING OF VALUABLE AND CRITICAL METALS FROM ELECTRICAL AND ELECTRONIC WASTE	<b>A. SANTOS</b> ANAEROBIC-AEROBIC SYSTEM FOR SUSTAINABLE PIG SLURRY WASTEWATER TREATMENT	<b>S. VENTURA</b> PREPARATION AND USE OF SLAG FROM THE INCINERATION OF MUNICIPAL SOLID WASTE AS A PARTIAL SUBSTITUTE FOR PORTLAND CEMENT
10h00	<b>C. LOUREIRO</b> INDUSTRIAL SCALE PRODUCTION OF INNOVATIVE ASPHALT MIXTURES WITH STEEL SLAG AGGREGATES AND RECLAIMED ASPHALT	<b>R. OLIVEIRA</b> STRATEGIES FOR OILFIELD PRODUCED WATER VALORIZATION USING ALCANIVORAX BORKUMENSIS	<b>P. L. ROCA</b> BIOCHAR AS A SUSTAINABLE TOOL FOR THE ADSORPTION OF MICROPOLLUTANTS IN ULTRAPURE WATER AND WASTEWATER
10H15	<b>L. PARSONS</b> DURABILITY OF CONCRETE MADE USING HIGH-IMPACT POLYSTYRENE E-PLASTIC AS AGGREGATE	<b>S. PARDILHÓ</b> THERMAL ACID HYDROLYSIS OF MARINE MACROALGAE WASTE AIMING BIOETHANOL PRODUCTION	<b>M. SANTOS</b> MASS AND ENERGY DISTRIBUTION OF PYROLYSIS PRODUCTS OF ACACIA AND OLIVE BAGASSE IN AN AUGER REACTOR
10H30	<b>COFFEE BREAK</b>		
	ROOM: AUDITÓRIO - CHAIR: CÂNDIDA VILARINHO	ROOM: ANFITEATRO C - CHAIR: CÉLIA FERREIRA	ROOM: ANFITEATRO B - CHAIR: RUI MARTINS
	<b>SESSION H1: RECYCLING OF WASTES AND RESOURCES RECOVERY</b>	<b>SESSION H2: PLASTIC WASTE IMPACTS, MANAGEMENT STRATEGIES AND SOLUTIONS</b>	<b>SESSION H3: WASTE TREATMENT AND VALORIZATION TECHNOLOGIES</b>
11H00	<b>J. CARVALHEIRAS</b> REAL ACID MINE DRAINAGE WASTEWATER TREATMENT USING RED MUD BASED POROUS ALKALI ACTIVATED MATERIALS	<b>A. M. FERREIRA</b> ENHANCING ENZYMATIC DEPOLYMERIZATION OF HDPE PLASTIC WASTE BY THE REMOVAL OF ADDITIVES USING A BIO-BASED SOLVENT APPROACH	<b>A. A. CORREIA</b> EFFECT OF ADDING CUTTING LIMESTONE WASTE IN MORTARS
11H15	<b>A. C. MORIM</b> SOIL APPLICATION OF BIOCHAR FROM RESIDUAL FORESTRY BIOMASS AS A STRATEGY FOR WILDFIRES PREVENTION	<b>C. PAIVA</b> MICROPLASTICS - THE PROBLEM OF THEIR QUANTIFICATION AND IDENTIFICATION	<b>A. V. ENSINAS</b> EFFLUENT RECIRCULATION IN THE CULTIVATION OF MICROALGAE IN VINASSE
11H30	<b>A. DABIRI</b> PERFORMANCE CHALLENGE OF RECYCLED MIXTURES WITH INCREASED INCORPORATION OF RECLAIMED ASPHALT	<b>L. HELENO</b> RECYCLING OF PET FINES WASTE BY DENSITY SEPARATION: A WAY TO CIRCULARITY OF PLASTIC	<b>M. I. ROQUE</b> DEVELOPMENT OF A SILICA-BASED CRYOGEL FOR THE ADSORPTION OF PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)
11H45	<b>R. SANTOS</b> ENGINEERED CEMENTITIOUS COMPOSITES INCORPORATING INDUSTRIAL BY-PRODUCTS	<b>H. SILVA</b> A NEW LIFE FOR PLASTIC FOOTWEAR WASTES AS ASPHALT BINDER MODIFIERS FOR ROAD PAVEMENTS	<b>L. SANTOS</b> VALORISATION OF PULP AND PAPER INDUSTRY WASTES - INCORPORATION IN BITUMINOUS MIXTURES FOR ROAD CONSTRUCTION
12H00	<b>F. PROENÇA</b> A GREEN METHOD FOR THE PRODUCTION OF RESINS FROM THE NATURAL PRODUCT CARDANOL	<b>A. CASTRO</b> QUALITY ASSESSMENT OF PET BOTTLES PRODUCED THROUGH BOTTLE-TO-BOTTLE RECYCLING	<b>G. LAMAA</b> OPTIMISED ALKALINE SOLUTIONS OF CO2-CURED ALUMINOSILICATE INDUSTRIAL WASTES: A NEW ERA OF CONCRETE
12H15	<b>CLOSING CEREMONY</b> ROOM: AUDITÓRIO ANA CRISTINA CARROLA: MEMBER OF THE BOARD OF DIRECTORS OF THE MANAGEMENT BOARD OF THE PORTUGUESE ENVIRONMENT AGENCY SILVIA GARCIA: ANI ADMINISTRATOR MEMBER OF THE CENTRAL PORTUGAL REGIONAL COORDINATION AND DEVELOPMENT COMMISSION [TO BE CONFIRMED] ISABEL LANÇA: PRESIDENT OF "ORDEM DOS ENGENHEIROS" OF CENTRAL REGION MARGARIDA QUINA: CO-CHAIR OF THE ORGANIZING COMMITTEE OF WASTES 2023 CO-CHAIR OF THE ORGANIZING COMMITTEE OF WASTES 2025		

# POSTER SESSIONS I & II

THEME	TITLE	AUTHOR	NR
1 MANAGEMENT OF WASTE STREAMS	THE UPVALUE CONCEPT UNDER THE SCOPE OF WASTE DIGITAL, MARKETPLACE AND MATCHMAKING PLATFORMS	M. SOARES	1.1
	FINDING SYNERGIES BETWEEN AGRI-FOOD AND CONSTRUCTION INDUSTRIES	M. SOARES	1.2
	ALGAE AS METAL PRE-CONCENTRATORS FROM ACID MINE DRAINAGE: TRUTH AND MYTHS	H. PASSOS	1.3
	CHALLENGES IN THE ACHIEVEMENT OF EUROPEAN TARGETS FOR RECYCLING: BIOWASTE TREATMENT INFRASTRUCTURES IN THE ALENTEJO-ALGARVE REGION	A. PARDAL	1.4
	USE OF OYSTER SHELL POWDER AS A LIMING MATERIAL IN THE REMEDIATION OF A PYRITE MINE-CONTAMINATED SOIL	P. ALVARENGA	1.5
	WASTELESS PROJECT: DEVELOPMENT OF SOLUTIONS TO FULLY VALORIZE FOOD LOSSES AND AGRO-INDUSTRIAL WASTES	P. ALVARENGA	1.6
	RESIDUAL BIOMASS COLLECTION CENTERS AS A LOCAL STRATEGY TO PROMOTE CIRCULAR BIOECONOMY	I. BRÁS	1.7
2 ENVIRONMENTAL, ECONOMIC AND SOCIAL ASPECTS IN WASTE MANAGEMENT	ECOTOXICOLOGY-BASED APPROACHES FOR WASTE CLASSIFICATION	L. FARIA	2.1
	SUSTAINABILITY ASSESSMENT OF A BIOWASTE MANAGEMENT STRATEGY	E. CIFRIÁN	2.2
	THE EFFICIENT MANAGEMENT OF URBAN WASTE TO PROMOTE THE CIRCULAR ECONOMY	R. FARIA	2.3
3 WASTE-TO-ENERGY TECHNOLOGIES	INFLUENCE OF THE TEMPERATURE ON THE SLOW PYROLYSIS OF PINECONES	A. RIBEIRO	3.1
	MICROWAVE PLASMA GASIFICATION: AN INNOVATIVE APPROACH FOR SEWAGE SLUDGE TREATMENT	N. PACHECO	3.2
	TECHNO-ECONOMIC ANALYSIS OF HYDROGEN PRODUCTION FROM SWITCHGRASS ENERGY CROP	A. RIBEIRO	3.3
	UPGRADING POLYMERIC REFUSE DERIVED FUEL BY CARBONIZATION	R. PANIZIO	3.4
	REFUSE DERIVED FUEL PELLETS AS FEEDSTOCK FOR ENERGY PRODUCTION.	S. M. SANTOS	3.5
	POULTRY AND WOOD INDUSTRY WASTES CO-MANAGEMENT: CREATION OF VALUE-ADDED WITH FUNGAL PRE-TREATMENT OF WOOD	I. MARQUES	3.6
	INFLUENCE OF ARUNDO DONAX BIOMASS ON THE ANAEROBIC CO-DIGESTION OF FILTERED SWINE WASTEWATER	B. PETRY	3.7
	SOLAR ENERGY ALTERNATIVE FOR SUSTAINABLE MOBILITY ON AMAZON RIVERS OF MANAUS REGION	J. GÓIS	3.8
	PRODUCTION OF PELLETS FROM LIGNOCELLULOSIC BIOMASS RESIDUES AND HYDROCARBON SLUDGE FOR ENERGY RECOVERY	R. PANIZIO	3.9
	AGRICULTURAL RESIDUAL BIOMASS HEAT POTENTIAL ASSESSMENT: A CONTRIBUTION TO THE AGRICULTURAL SOLID WASTE (ASW) ENERGY VALUATION	A. BOANE	3.10
4 LIFE CYCLE ASSESSMENT AND CARBON FOOTPRINT	LIFE CYCLE ASSESSMENT OF THE PRODUCTION OF A FIRE CURTAIN	L. NASCIMENTO	4.1
	LIFE CYCLE ASSESSMENT OF A SEAMLESS PIECE OF CLOTHING FROM A PORTUGUESE TEXTILE COMPANY	T. MATA	4.2
	CARBON FOOTPRINT OF A CARDOON/STARCH PARTICLEBOARD	T. MATA	4.3
	COMPARATIVE LIFE CYCLE ASSESSMENT OF PRUNING WASTE VALORIZATION FROM THE WINE INDUSTRY	R. SIMÕES	4.4
5 WASTE TREATMENT AND VALORIZATION TECHNOLOGIES	SEWAGE SLUDGE TREATMENT WITH BIOMASS ASH FOR ITS AGRICULTURAL USE	C. P. GIL	5.1
	COPPER RECOVERY FROM PRINTED CIRCUIT BOARDS: PERCOLATION LEACHING	M. F. ALMEIDA	5.2
	SPRAY DRYING AND PROCESS OPTIMIZATION OF THE WATER TREATMENT PLANT SLUDGE	B. S. DE MELLO	5.3
	THE CURRENT STATE OF WASTES VALORIZATION FROM WINE PRODUCTION	Z. GENISHEVA	5.4
	POTENTIAL FOR WASTE VALORIZATION IN AZOREAN FISH INDUSTRY	N. VALÉRIO	5.5
	ENDOSPERM RICE FIBER BY-PRODUCT AS SOURCE OF BIOACTIVE PHENOLIC COMPOUNDS	A. TASSONI	5.6
	LIQUID PHASE ADSORPTION OF NAPHTHALENE USING BIOCHAR PRODUCED FROM RESIDUES	A. C. ASSIS	5.7
	MULLITE BASED CERAMICS AS A POTENTIAL APPROACH FOR THE VALORISATION OF PETROCHEMICAL CATALYSTS WASTE	A. L. DELGADO	5.8
	CO2 CAPTURE IN 3D-PRINTED CARBON MONOLITH BY ADSORPTION	A. HENRIQUE	5.9
	ENHANCING EXTRACTION EFFICIENCY OF VALUABLE COMPOUNDS FROM VINE PRUNING RESIDUES WITH IONIC LIQUIDS	F. COLUSSI	5.10
	CATALYSTS DERIVED FROM COMPOST GENERATED FROM MUNICIPAL SOLID WASTES AND THEIR APPLICATION IN THE TREATMENT OF LEACHATE WATERS BY CATALYTIC WET PEROXIDE OXIDATION	H. GOMES	5.11
	VALORIZATION OF CASHEW NUT SHELL OIL IN THE SUSTAINABLE DEVELOPMENT OF EPOXY RESIN HARDENERS	D. RIBEIRO	5.12
	PRODUCTION OF BIODEGRADABLE PLASTIC FROM MALANGA WASTES	E. L. SERRANO	5.13
	APPLICATION OF SOLID WASTES TO TREAT SWINE WASTEWATER	E. DOMÍNGUES	5.14

<p>CIRCULAR ECONOMY AND INDUSTRIAL SYMBIOSES</p> <p>6</p>	MAPPING MUNICIPAL SOLID WASTE TO BOOST CIRCULAR VALORIZATION PRACTICES IN ŁÓDŹKIE	P. MOURA AND A. EUSÉBIO	6.1
	DEVELOPMENT OF COMPOSITES WITH PLASTIC WASTE AND USED FOUNDRY SANDS	F. CASTRO	6.2
	EXPLORING NEW FRONTIERS FOR BIOMASS ASH IN ADDITIVE MANUFACTURING	G. ASCENSÃO	6.3
	SYNTHETIC AGGREGATES BASED ON INDUSTRIAL WASTE	T. RADU	6.4
	HOOP FINANCIAL TOOLS TO PROVIDE TECHNICAL ASSISTANCE FOR URBAN CIRCULAR BIOECONOMY PROJECTS FROM BIOWASTE AND WASTEWATER SLUDGE	D. SILVA	6.5
	VALORIZATION OF WATER TREATMENT SLUDGE FROM A CIRCULAR ECONOMY PERSPECTIVE - THE CASE OF THE WTP OF AREIAS DE VILAR	A. P. MATTOSO	6.6
<p>RECYCLING OF WASTES AND RESOURCES RECOVERY</p> <p>7</p>	FERMENTABLE SUGARS FROM PRIMARY SLUDGE BY INNOVATIVE ENZYMATIC HYDROLYSIS.	L. MARCOLONGO	7.1
	ANN AND DOME TO PREDICT THE MOISTURE DAMAGE RESISTANCE OF HMA WITH RCA	A. P. PASANDÍN	7.2
	FRACTURE PERFORMANCE OF HWMRA MADE WITH WASTE LIGNIN.	A. P. PASANDÍN	7.3
	CHEMICAL EVALUATION OF AGRO-INDUSTRIAL WASTES FOR COMPOSTING WATER HYACINTH	V. OLIVEIRA	7.4
	UPCYCLING OF DENIM DISCARD FOR DEVELOPMENT OF NEW MATERIAL	A. D. MARQUES	7.5
	HYDRAULIC BEHAVIOUR OF A NONWOVEN GEOTEXTILE SUBMITTED TO MECHANICAL DAMAGE TESTS WITH INCINERATOR BOTTOM ASH	J. R. CARNEIRO	7.6
	SCHEELITE RESIDUES TAPES	W. ACCHAR	7.7
	USE OF RECYCLED AGGREGATES FROM CONSTRUCTION AND DEMOLITION WASTE AND INCINERATOR BOTTOM ASH AS FILLING MATERIAL IN ROAD INFRASTRUCTURES	J. R. CARNEIRO	7.8
	WALNUT HUSK RESIDUES - A SUSTAINABLE STRATEGY FOR PLANT-PARASITIC NEMATODES MANAGEMENT	C. MALEITA	7.9
	ORANGE PEEL VALORIZATION USING SUSTAINABLE APPROACHES	M. BRAGA	7.10
	EFFECT OF WETTING-DRYING CYCLES ON THE TENSILE BEHAVIOUR OF GEOSYNTHETICS EMBEDDED IN RECYCLED AGGREGATES COMING FROM CONSTRUCTION AND DEMOLITION WASTE (C&DW)	P. PEREIRA	7.11
	E-WASTE: AN INTEGRATED PROCESS FOR RECYCLING AND RESOURCE RECOVERY	F. ANDREOLA	7.12
	AN INNOVATIVE MICROWAVE TECHNOLOGY FOR STRATEGIC METALS RECOVERY FROM EXHAUSTED LITHIUM -ION BATTERIES	A. ZANOLETTI	7.13
BIOACTIVE MOLECULES FROM ESSENTIAL OIL EXTRACTION WASTES	G. SOUILLACI	7.14	
<p>FOOD WASTE MANAGEMENT AND BIOECONOMY</p> <p>8</p>	STRAWBERRY COATING WITH FRUIT WASTE-BASED FORMULATIONS	M. BRAGA	8.1
	USE OF WASTE FROM BARS AND RESTAURANTS FOR THE PRODUCTION OF BALANCED DOG FOOD	E. L. SERRANO	8.2
	SUSTAINABILITY IN CATTLE SLAUGHTER: WASTES OF THE ANIMALS ALONG THE SLAUGHTER LINE	A. ESTEVES	8.3
	TECHNOPATHIES IN SLAUGHTERHOUSE VS. FOOD WASTE	A. JESUS	8.4
	VALORISATION OF POULTRY FEATHER WASTES: KERATIN RECOVERY USING IONIC LIQUIDS	H. PASSOS	8.5
	SPENT COFFEE GROUNDS HINDER THE GROWTH OF WILD ROCKET BUT INCREASE ITS ANTIOXIDANT QUALITY	P. LORENZO	8.6
<p>PLASTIC WASTE IMPACTS, MANAGEMENT STRATEGIES AND SOLUTIONS</p> <p>9</p>	COSMO-RS MODELING FOR EFFICIENT DEEP EUTECTIC SOLVENT SELECTION IN PLASTIC RECYCLING	A. FERREIRA	9.1
	CARBON NANOTUBES DERIVED FROM MODEL PLASTIC SOLID WASTE: METAL SUBSTRATE EFFECT IN SYNTHESIS PROCEDURE	F. ROMAN	9.2
<p>WASTES AS CRITICAL RAW MATERIALS RESOURCES</p> <p>10</p>	SPENT COFFEE GROUNDS, GRAPE POMACE AND BREWERY SPENT GRAIN: PRELIMINARY CHARACTERIZATION AIMING AT BIODIESEL PRODUCTION	E. COSTA	10.1
	PRODUCTION OF NANOCELLULOSE FROM LIGNOCELLULOSIC RICH WASTES - AN ADDED VALUE PRODUCT FOR THE BIOPLASTICS REINFORCEMENT	A. L. FERNANDO	10.2
	WASTE FROM THE MANAGEMENT OF THE INVASIVE ACACIA DEALBATA AS A SOURCE OF PRODUCTS FOR AGRICULTURE PURPOSES	P. LORENZO	10.3

# INDUSTRY SESSION G

[Inscreva-se aqui](#)

Participação gratuita mas sujeita a inscrição. Conferencistas têm livre acesso, sem necessidade de registo na sessão indústria.

## Waste-to-energy technologies

08/09/2023

ANFITEATRO A

### PROGRAMA

9H10

**RUI LAIA, VALORSUL**

Experiência da Valorsul com a tecnologia de valorização térmica de RSU. Incineração como tecnologia de valorização térmica da fração resto

9H30

**NUNO JANICAS, AMBITERMO – ENGENHARIA E EQUIPAMENTOS TÉRMICOS, S.A**

AmbWTE.: Biomass & Waste to Energy System

9H50

**ROBERTA PANIZIO, IPP – INSTITUTO POLITÉCNICO DE PORTALEGRE**

SynDiesel - Combustíveis para motores diesel a partir de gaseificação térmica de resíduos e culturas dedicadas

10H10

**NUNO PACHECO, CVR – CENTRO PARA A VALORIZAÇÃO DE RESÍDUOS**

Plasma2Gas: New Energy Level - Gasification System - NEL - New Energy Level, Lda

10H30

**COFFEE BREAK**

11H00

**PEDRO ARAÚJO, ACS - ADVANCED CYCLONE SYSTEMS**

O papel de ciclones de alta eficiência na separação de partículas e captura de carbono em processos de incineração e gaseificação

11H20

**PAULO BRITO, IPP – INSTITUTO POLITÉCNICO DE PORTALEGRE**

PigWasteBioRefinery - Biorrefinaria suínica com base em processos biológicos, térmicos e eletroquímicos - Projeto-piloto móvel demonstrador

11H40

**RUI SOARES, PARALAB**

New developments on pilot scale systems for Gasification /Pyrolysis and HTL - Hydrothermal Liquefaction

Organizado por:

Parceiros:

