

FINAL PROGRAM

Energy and Environment Knowledge Week 2016

Paris, 28th & 29th October



28th October

08:30 – 9:00 Registration

09:00 – 9:30 Opening Ceremony

-Parallel Sessions 1-

09:30 – 10:45

Amphi 101	<p>Parallel Session 1A - Air Pollution (I). Chair: Evelyn Géhin (UPEC)</p> <ul style="list-style-type: none"> • "THE IMPACT OF ENVIRONMENTAL REGULATION ON AIR POLLUTION LEVELS". Balsalobre, D. ; Alvarez-Herranz, A; Shahbaz, M. and Cantos J.M. • "FORECAST MODEL OF ALLERGENIC HAZARD USING TRENDS OF POACEAE AIRBORNE POLLEN OVER AN URBAN AREA IN SW IBERIAN PENINSULA (EUROPE)". <i>Fernández-Rodríguez, S.; Durán-Barroso, P.; Silva-Palacios, I.; Tormo-Molina, R.; Maya-Manzano, J.M. and Gonzalo-Garijo, A.</i> • "NUMERICAL STUDY ON AIR DISTRIBUTION AND EXHALED DROPLET DISPERSION IN A CLASSROOM". Yang, Y.; Da, G.; Liu, L.; Géhin, E.; Delaby, S.; Ritoux, S.; Ha, T.L.; Robine, E.; Tankari, M.A. and Lefebvre, G. • "NOX EMISSIONS FROM DIESEL LIGHT DUTY VEHICLE TESTED UNDER NEDC AND REAL-WORLD DRIVING CONDITIONS". Ramos, A.; Muñoz, J.; Armas, O. and Andrés F.
Salle 301	<p>Parallel Session 1B - Renewable Energy. Chair: María Jaén (CNH2)</p> <ul style="list-style-type: none"> • "RENEWABLE ENERGY APPLIED TO THE MOBILITY SECTOR. BOUND4BLUE CONCEPT TO GENERATE HYDROGEN AND OXYGEN". Aleixendri, C.; Bermúdez, J.M.; Ferrer, D.; Fúnez, C. and Reyes-Bozo, L. • "A SIMPLE MODEL FOR ESTIMATION OF FUEL INJECTION RATE WITH A SOLENOID OPERATED INJECTOR". Mata, C.; Martínez, S.; Avila, C. and Calvo-Parra, D. • "HYACINTH: HYDROGEN ACCEPTANCE IN THE TRANSITION PHASE". Jaén, M. and Rodríguez, L. • "SPAIN H2 MOBILITY: 2016-2030 STRATEGY". Fúnez, C; García, R.; Angulo, E.; Verastegui, D.; Clemente, C. and Reyes-Bozo, L.
Salle 305	<p>Parallel Session 1C - Next Generation Butanol "ButaNext". Chair: Inés del Campo (CENER)</p> <ul style="list-style-type: none"> • "STRATEGIES TO INTRODUCE N-BUTANOL IN GASOLINE BLENDS". Lapuerta, M.; Ballesteros, R. and Barba, J. • "COLD-FLOW AND FILTERABILITY PROPERTIES OF BUTANOL AND ETHANOL BLENDS WITH DIESEL AND BIODIESEL FUELS". Lapuerta, M.; Rodríguez-Fernández, J.; Fernández-Rodríguez, D. and Patiño R.M. • "MODELLING VISCOSITY OF ALCOHOL BLENDS WITH DIESEL AND BIODIESEL FUELS". Lapuerta, M.; Rodríguez-Fernández, J.; Fernández-Rodríguez, D. and Patiño R.M. • "EFFECT OF GASOLINE-BUTANOL BLEND AND EXHAUST GAS RECIRCULATION ON COMBUSTION PERFORMANCE, GASEOUS EMISSIONS AND PARTICULATE MATTER IN A GDI ENGINE". Hergueta, C.; Bogarra, M.; Tsolakis, A. and Herreros, M. • "SUSTAINABLE FEEDSTOCKS FOR ADVANCED BIOFUEL PRODUCTION IN EUROPE". Natrass, L.; German, L. and Taylor, R.

10:45 – 11:15 Coffee Break

11:15 – 12:00 **PLENARY LECTURE** (Amphi 101) "Atmospheric observations in the anthropocene", by Johannes Orphal (Karlsruhe Institute of Technology – KIT)

-Parallel Sessions 2-

12:00 – 13:15

Amphi 101	<p>Parallel Session 2A - Air Pollution (II) & Atmospheric Chemistry. Chair: Guillaume Da (UPEC)</p> <ul style="list-style-type: none"> • "FORECAST MODEL OF ALLERGENIC HAZARD USING TRENDS OF PLATANUS AIRBORNE POLLEN OVER AN URBAN AREA IN SW IBERIAN PENINSULA (EUROPE)". Fernández-Rodríguez, S.; Durán-Barroso, P.; Silva-Palacios, I.; Tormo-Molina, R.; Maya-Manzano, J.M. and Gonzalo-Garijo, A. • "CONTRIBUTION OF WET PAVEMENT CLEANING TO AIRBORNE PARTICLE COMPOSITION OF PARIS: SEM APPROACH". Seidl, M.; Da, G.; Ausset, P. and Géhin, E. • "EXPERIMENTAL DETERMINATION OF THE TRANSFER COEFFICIENTS OF EXHALED DROPLETS IN A CLASSROOM". Da, G.; Géhin, E.; Ritoux, S., Ha, T.L. and Robine, E. • "OZONE CONTENTS FROM TWO URBAN GROUND-BASED FTIR STATIONS – PARIS (CRETEIL, FRANCE) AND ST PETERSBURG (PETERHOF, RUSSIA): COMPARISON WITH CORRELATIVE SATELLITE AND SURFACE OBSERVATIONS". Chelin, P.; Virolainen, Ya.; Fratacci, T.; Ray, M.; Eremenko, M.; Cuesta, J.; Dufour, G.; Ionov, D.; Kolmakova, N.; Timofeyev Yu.; Poberovskii, A.; Hase, F.; Orphal, J. and Flaud, J.-M.
Salle 301	<p>Parallel Session 2B - PCDDs/PCDFs Emissions and their Impact on the Environment. Chair: Marta Gómez (CARTIFF)</p> <ul style="list-style-type: none"> • "RAPID ATMOSPHERIC PRESSURE PHOTOIONIZATION - MASS SPECTROMETRY (APPI-MS) METHOD FOR THE DETECTION OF POLYCHLORINATED DIBENZODIOXINS". Amo M., Gómez M., del Castillo J.C. and Martín J.M. • "STUDY OF PCDDs/PCDFs DISPERSION IN THE ENVIRONMENT OF A MUNICIPAL SOLID WASTE INCINERATOR". Gómez M. and Martín J.M. • "LIFE DIOXDETECTOR PROJECT: A NOVEL ANALYTICAL TECHNIQUE FOR THE QUANTIFICATION OF PCDDs/PCDFs, TRACKING CONTINUOUS PCDDs/PCDFs CONCENTRATIONS IN AIR, SOIL AND BIOTA (VEGETAL) AT THE SURROUNDINGS OF A MUNICIPAL SOLID WASTE INCINERATOR". Gómez M., Amo M., Martín J.M., del Castillo J.C. and Moral A. • "STUDY OF PCDDs/PCDFs EVOLUTION FROM EMISSION TO DEPOSITION IN THE ENVIRONMENT OF A MUNICIPAL SOLID WASTE INCINERATOR. ENVIRONMENTAL IMPACT". Moral A. and Gómez M.
Salle 305	<p>Parallel Session 2C - Economics of Energy and Environment. Chair: Ángela Triguero (UCLM)</p> <ul style="list-style-type: none"> • "MEXICO AND BRAZIL: GLOBAL VALUE CHAINS AND CO2 EMISSIONS EMBODIED IN TRADE". S. Banacloche, M.A. Cadarso, F. Monsalve

	<ul style="list-style-type: none"> • "THE INFLUENCE OF INBOUND OPEN INNOVATIVE STRATEGIES ON ECO-INNOVATION IN THE SPANISH FOOD AND BEVERAGE INDUSTRY ". Triguero, A.; Sáez, F.J. and Fernández, S. • "GLOBAL EMISSIONS CHAINS AND MULTINATIONAL ENTERPRISES: MEASURING RESPONSIBILITIES FOLLOWING THE CONTROL CRITERION". Zafrilla, J.E.; López, L.A.; Cadarso, M.A. and Arce, G. • "SUSTAINABLE ADMINISTRATION: TOWARDS A COMPREHENSIVE GREEN PUBLIC PROCUREMENT". Miranzo, J. • "A BIBLIOMETRIC STUDY OF CORPORATE ENVIRONMENTAL RESPONSIBILITY RESEARCH: PAST, PRESENT AND FUTURE TRENDS". Segovia-Valiente, J. and Sáez-Martínez, F.J.
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13:15-14:30 Lunch.

-Parallel Sessions 3-

14:30-16:00

Amphi 101	<p>Parallel Session 3A - Tourism and Environment. Chair: Carmen Roba (BBU)</p> <ul style="list-style-type: none"> • "RESPONSIBLE TOURISM CONCEPTUAL REPRESENTATION: SEMANTIC FIELDS THROUGH INDIVIDUAL DISCLOSURE". M. A. Gómez-Borja, C. Lorenzo-Romero and J.A. Mondéjar-Jiménez • "HYDROGEOCHEMICAL FEATURES OF MINERAL SPRINGS FROM THE FUTURE "BUZAU LAND" GEOPARK, ROMANIA". Roba, C.A.; Baciu, C.; Moldovan, M.; Burghel, B.D.; Mitrofan, H. and Buterez, C. • "ENVIRONMENTAL CONCERN IN TOURISM FROM A CROSS-NATIONAL PERSPECTIVE". Campos, J.A.; García-Pozo, A. and Marchante, A.J. • "THE PROTECTION OF NATURAL AREAS: DO YOU KNOW MY LABEL?". Cordente-Rodríguez, M.; Mondéjar-Jiménez, J.A. and Villanueva-Álvaro, J.J.
Salle 301	<p>Parallel Session 3B - Green Chemistry & Contaminated Sites. Chair: Lorenzo Reyes (UCENTRAL Chile)</p> <ul style="list-style-type: none"> • "ASSESSMENT OF BIOSOLIDS AND THEIR COMPONENTS AS MAIN COLLECTOR OF COPPER SULFIDE ORES". Reyes-Bozo, L.; Higuera, P.; Valdés-González, H., Vyhmeister, E.; Godoy-Faúndez, A.; Fúnez, C.; Salazar, J.L. and Herrera-Urbina, R. • "SYNTHESIS OF TRIMETHYLOLPROPANE TRIOLEATE: A GREEN ALTERNATIVE TO TRADITIONAL LUBRICANTS". De Haro, J.C.; Martín, M.C.; Rodríguez, J.F.; Pérez, A. and Carmona, M.S. • "MERCURY SPECIES ACCUMULATION AND DISTRIBUTION IN TYPHA DOMINGENSIS UNDER REAL FIELD CONDITIONS". Jiménez-Moreno, M.; Lominchar, M.A.; Sierra, M.J.; Millán, R. and Rodríguez, R.C. • "PHYTOREMEDIATION OF ATRAZINE-POLLUTED SOILS WITH GRASS AND CROP PLANTS". Sánchez, V.; López-Bellido, F.J.; Cañizares, P. and Rodríguez, L. • "CHARACTERIZATION OF SOIL PRODUCTIVITY UNDER HEAVY MERCURY POLLUTION". Campos, J.A.; Madrid, M.M.; Naharro, R.; Peco, J.; Esbrí, J.M.; García-Noguero, E.M.; Amorós, J.A.; Moreno, M.M. and Higuera, P.

Salle 305	Parallel Session 3C - Biofuels and Biomass. Chair: Magín Lapuerta (UCLM)
	<ul style="list-style-type: none"> • "THERMODYNAMIC DIAGNOSIS OF DIESEL COMBUSTION PROCESS UNDER COLD ENGINE START WITH DIFFERENT FUELS". García-Contreras, R.; Villanueva, O.; Quintanar, D. and Armas, O. • "EFFECT OF FUELS AND INJECTION STRATEGY ON THE COMBUSTION PROCESS UNDER DIESEL ENGINE START". Ezzitouni, S.; Soriano, J.A.; Gómez, A. and Armas, O. • "IMAGE PROCESSING BASED ALGORITHM TO AUTOMATICALLY DETERMINE SMOKE POINT OF DIESEL FUELS". Soriano-García, J.A.; Rubio-Gómez, G.; Gómez, A. and Castillo-García, F.J. • "STABILITY OF BIOGAS FLAMES AND MIXTURES WITH NATURAL GAS AND HYDROGEN". Hernández, J.J.; Barba, J. and Calle, A. • "PYROLYSIS PROCESS USING A PILOT PLANT HP-TGA". Puig-Gamero, M.; Fernández-López, M.; Sánchez, P.; Valverde, J.L. and Sánchez-Silva, L.

-Parallel Sessions 4-

16:00-17:30

Amphi 101	Parallel Session 4A - Energy Efficiency. Chair: Mahamadou Abdou-Tankari (UPEC)
	<ul style="list-style-type: none"> • "POTENTIAL FOR ENERGY RECOVERY FROM HEAT TRANSFER RATE THROUGH THE EXHAUST PIPE WALLS IN A LIGHT DUTY DIESEL ENGINE". Fernández-Yáñez, P.; García-Contreras, R.; Gutiérrez, J. and Agudelo, A.F. • "CONTROL SYSTEM TUNING OF AN INTERNAL COMBUSTION ENGINE TEST BENCH UNDER TRANSIENT OPERATION". Caño, E.; Payo, I. and Sánchez-Rodríguez, L. • "REDUCTION OF THE ENERGY COMSUPTION IN ROBOTS USING ADAPTIVE CONTROL LAWS". Rodríguez, D; Payo, I.; Castillo, F.J. and González, A.
Salle 301	Parallel Session 4B - Storage Systems and Energy Management. Chair: Gilles Lefebvre (UPEC)
	<ul style="list-style-type: none"> • "THE SOL-GEL PROCESS FOR DEVELOPING SHAPE-STABILIZED PHASE CHANGE MATERIALS". Serrano, A.; Carmona, M.; Rodríguez, J.F. and Garrido, I. • "THE EFFECT OF SUSPENDING AGENT TYPE ON THERMAL AND PHYSICAL PROPERTIES OF THERMOREGULATING MICROCAPSULES". Szczotok, A.M.; Carmona, M.; Kjønksen, A.L. and Rodríguez, J.F. • "NATURAL FIBERS: CHARACTERIZATION AND APPLICATIONS OF BIOBASED MATERIALS". Dujardin, N.
Salle 305	Parallel Session 4C - Sustainability, Sustainable Cities and Waste Treatment. Chair: Bruno Peupotier (Mines ParisTech)
	<ul style="list-style-type: none"> • "BIOSORPTION OF ACID BLUE 80 DYE FROM AQUEOUS SOLUTIONS BY Lemna minor". Zambrano-Pérez, V.J.; Reyes-Ledezma, J.L.; Ballinas-Cesatti, C.B.; Morales-Barrera, L. and Cristiani-Urbina, E. • "CONCEPTUAL FRAMEWORK FOR THE STUDY OF FOOD WASTE GENERATION AND PREVENTION IN THE HOSPITALITY SECTOR". Papargyropoulou, E.; Wright, N.; Lozano, R.; Steinberger, J.; Padfield, R. and Ujang, Z.

	<ul style="list-style-type: none"> • "CRUDE GLYCEROL FROM BIODIESEL AS SUSTAINABLE GLYCOLYSIS AGENT FOR POLYURETHANE WASTE". Simon, D.; De Lucas, A.; Rodríguez, J.F. and Borreguero, A.M. • "LIFE CYCLE ASSESSMENT APPLIED TO URBAN PROJECTS". Peuportier, B.; Roux, C. and Schalbart, P. • "POPEM: Coupling population dynamics with Earth System Models". Navarro, A.; Tapiador, F.J.; Jiménez-Alcázar, A. and Moreno, R.
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20:00 – 22:30 GALA DINNER

29th October

-Parallel Sessions 5-

08:30 – 10:15

Amphi 101	<p>Parallel Session 5A - Sustainability and Water (I) & Groundwater Management in Arid and Semiarid Regions. Chair: Ahmed Murad (UAEU)</p> <ul style="list-style-type: none"> • "NEW APPROACHES FOR THE IONIC LIQUID TREATMENT UNDER ADVANCED OXIDATION PROCESSES". Díez, A.M.; Sanromán, M.A and Pazos, M.M. • "HETEROGENEOUS ELECTRO-FENTON CATALYST FOR IONIC LIQUID DEGRADATION". Sanromán, M.A.; Meijide, J. and Pazos, M.M. • "SPECTROPHOTOMETRIC DETERMINATION OF NITRATE IN HIGH SALINE WATER: EFFECT OF MASKING AGENTS". Valiente, N.; Jirsa, F. and Gómez-Alday J.J. • "PESTICIDE POLLUTION IN GROUNDWATER BODIES IN THE JUCAR RIVER BASIN (SE SPAIN)". Menchén, A. and Gómez-Alday, J.J. • "EVALUATION OF THE AQUIFER RECHARGE BY INFILTRATION TESTS IN ARID REGION: A CASE STUDY ON WADI AL BIH DAM, RAS AL KHAIMAH, NORTHERN EMIRATES, UNITED ARAB EMIRATES (UAE)". Murad, A.; Mahmoud, S.; Arman, H.; Gabr, A. and Al Duhoori, A.
Salle 301	<p>Parallel Session 5B - Solar Energy, Wind Energy & Smart Heterogeneous Energy Systems. Chair: Irene Martín (UPM)</p> <ul style="list-style-type: none"> • "SOLAR RADIATION VARIABILITY AND IMPLICATIONS IN ELECTRICITY GENERATION: SATELLITE DATA ANALYSIS FOR THE IBERIAN PENINSULA". Gutiérrez, C.; Gaertner, M.A.; Gallardo, C.; Perpiñan, O and Gil, V. • "UV ACCELERATED AGEING TEST ON UN-PACKAGED MONOCRYSTALLINE SILICON SOLAR CELLS". Guiheneuf, V.; Delaleux, F.; Riou, O.; Logerais, P.O. and Durastanti, J.F. • "A FREQUENCY ANALYSIS BASED PREDICTIVE MAINTENANCE APPROACH FOR DRIVING MECHANISMS IN WIND TURBINES". Ruiz, R.; Lang, Z.Q. and García, F.P. • "SCENARIO GENERATION FOR WEIBULL-DISTRIBUTED AND EXPONENTIALLY-AUTOCORRELATED WIND SPEED". Zárate-Miñano, R. and Carrión, M. • "SMART METERS IN SMART MANUFACTURING". Martín, I.; Florence, A.; González, E. and Andina, D.

10:15 – 10:45 Coffee Break

10:45 – 11:45 **PLENARY LECTURE** (Amphi 101) "A review of commitment and implementation of sustainable development in higher education", by Rodrigo Lozano (Copernicus Institute of Sustainable Development - Utrecht University)

-Parallel Sessions 6-

11:45 – 13:00

Amphi 101	<p>Parallel Session 6A- Sustainability and Water (II). Chair: Pablo Durán-Barroso (UNEX)</p> <ul style="list-style-type: none"> • "SEQUENTIAL ADSORPTION-FENTON PROCESS FOR THE REMOVAL OF RHODAMINE B FROM WASTEWATER". Anasie, D.; Rosales, E.; Pazos, M.; Lazar, I. and Sanromán, M.A. • "EVALUATION OF WATER AND ENERGY EFFICIENCY IN WASTE WATER TREATMENT PLANTS USING THE FOOTPRINT FAMILY". Gómez-Llanos, E.; Durán-Barroso, P.; Fernández-Rodríguez, S.; Matías-Sánchez, A. and Guzmán-Caballero, R. • "RIVER CONTAMINATION BY BIOCIDES: PASSIVE SAMPLING DEVELOPMENT AND APPLICATION TO PARIS CONURBATION". Bonnaud, B.; Zedek, S.; Caupos, E.; Moilleron, R. and Bressy, A. • "PARABEN SUBSTITUTION IN PERSONAL CARE PRODUCTS: IMPACTS ON THE CONTAMINATION AND ECOTOXICITY OF WASTEWATER". Waldman, P.; Bressy, A.; Bonnaud, B.; Marconi, A.; Paulic, L.; Rocher, V.; Gómez, E. and Moilleron, R.
Salle 301	<p>Parallel Session 6B - Environmental Impacts. Chair: J.A. Martín (Univ. Granada)</p> <ul style="list-style-type: none"> • "MAP OF RADIOFREQUENCY ELECTROMAGNETIC EXPOSURE". Arribas, E; Nájera, A. and González-Rubio, J. • "THE ENVIROMENTAL IMPACT OF ECONOMIC ACTIVITY". Martín, J.A. and Pérez, C. • "AMELIORATION OF GREEN ROOF ECOSYSTEM BY EARTHWORM AND COMPOST" M.D. JUSSELME, C. PRUVOST and P. MORA • "CO2 HOUSEHOLD EMISSIONS PROJECTIONS: POTENTIAL CHANGES IN DEMOGRAPHY AND TECHNOLOGY". Tobarra, M.A.; Gómez, N. and Drukman, A. • "ENVIRONMENTAL IMPACT FROM SPANISH FOOD WASTE". Tobarra, M.A. and Gómez, N.

13:00-14:15 Lunch.

14:15 – 14:30 **BEST POSTER AWARD CEREMONY**

POSTER CONTRIBUTIONS

AIR POLLUTION

AP - 08	<p>“CONTROL EFFECT OF UPPER EXHAUST VENTILATION SYSTEM ON THE MONODISPERSED WATER DROPLETS GENERATED BY AN OPENING TANK”</p> <p>Y. Yang, Y. Wang, Y. Zou, S. Wu</p>
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ATMOSPHERIC CHEMISTRY

AC - 02	<p>“HETEROGENEOUS REACTION OF OZONE WITH KI NANOPARTICLES”</p> <p>M.T. Baeza-Romero, O. Gálvez, M. Sanz, C. García, V. López-Arza, O. Andres Bracho</p>
AC - 03	<p>“EVALUATION OF THE ATMOSPHERIC IMPLICATIONS OF Z-CHF=CHCF₃: REACTION WITH OH RADICAL, EXPOSURE TO SUNLIGHT, AND EFFECT ON GLOBAL WARMING”</p> <p>Elena Jiménez, María Antiñolo, Antonio J. Ocaña, Bernabé Ballesteros, José Albaladejo</p>
AC - 04	<p>“CHEMICAL CHARACTERIZATION OF DIESEL AND HYDROTREATED VEGETABLE OIL SOOT SAMPLES USING DIFFUSE REFLECTANCE INFRARED FOURIER TRANSFORM SPECTROSCOPY (DRIFTS) TECHNIQUE”</p> <p>Araceli Tapia, M. S. Salgado, M. P. Martín, J. Rodríguez-Fernández, E. Martínez, B. Cabañas</p>
AC - 05	<p>“PHOTOLYSIS STUDY UNDER SUNLIGHT CONDITIONS: MAIN ATMOSPHERIC SINK OF PARTIALLY FLUORINATED KETONES”</p> <p>Ana Rodríguez, Diana Rodríguez, Iván Bravo, Yolanda Diaz-de-Mera, Alberto Notario, Alfonso Aranda</p>
AC - 06	<p>“ATMOSPHERIC REACTION OF OZONE WITH 2- AND 3-METHOXYPHENOL: RATE CONSTANTS AND SECONDARY ORGANIC AEROSOL YIELDS”</p> <p>Amparo Soto, Bernabé Ballesteros, Elena Jiménez, Ernesto Martínez, José Albaladejo</p>

CLIMATE CHANGE

CC - 01	<p>“STUDY OF THE DIRECT METRIC TON OF CARBON DIOXIDE-EQUIVALENT (metric tonnes CO₂-e) IN DIESEL EXHAUST”</p> <p>Oscar Andres Bracho, María Teresa Baeza-Romero, Vicente López-Arza, M. Dolores Cárdenas Almena</p>
CC - 03	<p>“ANALYSIS OF THE POTENTIAL OF SPANISH SUPERMARKETS TO CONTRIBUTE TO CLIMATE CHANGE MITIGATION”</p> <p>J.C. Ríos, C. Loredo, N. Roqueñí</p>
CC - 05	<p>“RUSEM: A NUMERICAL MODEL FOR ENVIRONMENTAL MANAGEMENT”</p> <p>A. Navarro, F.J. Tapiador, A. Jiménez-Alcázar, R. Moreno</p>

CONTAMINATED SITES

CS - 01	“COMBINED NATURAL AND ANTHROPOGENIC CONTAMINATION BY MERCURY IN SOILS FROM ALMADÉN – SPAIN” Ángel Martínez-Martínez, Elena Crespo, Pablo Higuera, Eva M. García-Noguero
CS - 03	“MERCURY CONTENTS IN PINE LEAVES FROM ALMADÉN (SPAIN) IN RELATION WITH CONTENTS IN SOILS AND ATMOSPHERE” Pablo Higuera, S. Rojas, J.I. Barquero, E.M. García-Noguero, J.M. Esbrí
CS - 04	“PARTICULATE MATTER AND PARTICULATE-BOUND MERCURY IN A HEAVILY POLLUTED SITE RELATED WITH ANCIENT MINING AND METALLURGY” Pablo Higuera, José M. Esbrí, Celia Izquierdo, Alba Martínez-Coronado
CS - 05	“DISTRIBUTION OF METALS IN AGRICULTURAL SOILS IN CASTILLA-LA MANCHA (SPAIN)” F.J. García-Navarro, Sandra Bravo, J.A. Amorós, C. Pérez-de-los-Reyes, Pablo Higuera
CS - 07	“ELECTROKINETIC-ASSISTED PHYTOREMEDIATION OF ATRAZINE-POLLUTED SOILS” Virtudes Sánchez, Francisco J. López-Bellido, Pablo Cañizares, Luis Rodríguez
CS - 09	“TRACE METALS ENRICHMENT IN THE SEDIMENTS OF A MINING IMPACTED ESTUARY (NORTH OF SPAIN)” García-Ordiales E, Fazzolari C, Covelli S, Flor-Blanco G, Fontolan F, Cienfuegos P, Roqueñí N Díaz M, Loredó J
CS - 10	“MERCURY PARTITIONING IN THE WATER COLUMN OF EL ENTREDICHO OPEN-PIT (ALMADÉN, SPAIN)” García-Ordiales E., Covelli S., Higuera P., Esbrí J.M., Loredó J., Cienfuegos P.

ECO-INNOVATION

EI - 01	“IMPACT OF INTRODUCING ECO-INNOVATION MEASURES ON PRODUCTIVITY IN TRANSPORT SECTOR COMPANIES” Alejandro García-Pozo, José Luis Sánchez Ollero
EI - 02	“IS ECO-INNOVATION ORIENTATION DYNAMIC AT THE AUTOMOBILE INDUSTRY? PREDICTING FUTURE BEHAVIOR BASED ON PAST ATTITUDE USING THE PLS ANALYSIS” Peiró-Signes, A. ; Segarra-Oña, M. ; Mondéjar-Jiménez, J.

ECONOMICS OF ENERGY AND ENVIRONMENT

EEE - 02	“ANALIZING THE INTERDEPENDENCE OF RENEWABLE ENERGY AND WEALTH GENERATION” López-Bernabé, Elena; Córcoles, Carmen; Carrasco, Inmaculada
EEE - 03	“A FRAMEWORK FOR UNDERSTANDING SUSTAINABLE BRANDS: CONSUMER, PRODUCER AND POLICY PERSPECTIVES” McDonagh, P.; González-Moreno, A.; Sáez-Martínez, F.J. and Triguero, A.

ENERGY EFFICIENCY

EE - 03	“MEASURES FOR ENERGY EFFICIENCY IN HOSPITALS” María Carmen Carnero, Francisco Javier Cárcel, Juan Manuel Rodríguez
EE - 05	“DESIGN OF A HEAT EXCHANGER INCLUDING COMPOSITE PHASE CHANGE MATERIAL” Djefel D., Lefebvre G., Makhlof S., Khedache S., Royon L.

ENVIRONMENTAL IMPACTS

Elm - 01	“ANALYZES OF HYGROTHERMAL PERFORMANCE OF SOME CONSTRUCTION MATERIALS USED IN BUILDING” Chennouf.N, Agoudjil.B, Boudenne.A, Bouras.F
Elm - 02	“IS THE EMPEROR NAKED? TRACKING THE ENVIRONMENTAL AND SOCIAL FOOTPRINT OF EU 2007-2013 FINANCIAL FRAMEWORK” Fabio, Monsalve; Zafrilla, Jorge Enrique; Cadarso, M ^a Angeles
Elm - 04	“ENVIRONMENTAL ASSESSMENT IN HEALTH CARE ORGANIZATIONS” Isabel Romero, María Carmen Carnero
Elm - 06	“ENVIRONMENTAL IMPACT OF RURAL TOURISM ACCOMMODATIONS OF CASTILLA Y LEÓN” Juan-José Villanueva-Álvaro, Juan-Antonio Mondéjar Jiménez, María Cordente-Rodríguez, Juan-Carlos-Guillermo Ceballos-Santamaría

GREEN CHEMISTRY

GC - 01	“CHEMICAL FIXATION OF CARBON DIOXIDE INTO CYCLIC CARBONATES CATALYSED BY ALUMINIUM COMPLEXES” J. A. Castro-Osma, J. Martínez, A. Lara-Sánchez, A. Otero, J. Fernández-Baeza, C. Alonso-Moreno, M. North
GC - 03	“BALL-MILLING OF GRAPHITE: AN ECO-FRIENDLY ACCESS TO GRAPHENE QUANTUM DOTS” A. Martín-Pacheco, M.A. Herrero, E. Díez-Barra, E. Vázquez
GC - 04	“SYNTHESIS OF PHOSPHORILATED BIOPOLYOLS WITH IMPROVED THERMAL STABILITY” Juan Carlos de Haro Sánchez, D. Lopez-Pedrajas, J.F. Rodriguez, A. Pérez, M.S. Carmona

GROUNDWATER MANAGEMENT

GM - 01	“GROUNDWATER SUSTAINABILITY OF WADI AL AIN AQUIFER UNITED ARAB EMIRATES (UAE) USING GEOPHYSICAL METHODS” A. Murad, A. Gabr
GM - 02	“GROUNDWATER SUSTAINABILITY AT WADI AL BIH DAM, RAS EL KHAIMAH, UNITED ARAB EMIRATES (UAE) USING GEOPHYSICAL METHODS” A. Gabr, A. Murad, S. Mahmoud, H. Arman, A. Al Dhuhoori
GM - 05	“THE IMPACT OF HYDROTHERMAL FRESHWATERS AND IRRIGATION RETURN FLOWS ON GROUNDWATER QUALITY IN THE AL HAYER AREA (SE UNITED ARAB EMIRATES)” Juan José Gómez Alday, Murad A., Werner P., Hussein, S.
GM - 07	“KNOWLEDGE, PARTICIPATION AND TRANSPARENCY IN GROUNDWATER MANAGEMENT” Iordanka Guenova Dountcheva, David Sanz, Santiago Castaño, Juan José Gómez-Alday

RENEWABLE ENERGY

RE - 02	<p>“THE USE OF MINE WATER IN GEOTHERMAL ENERGY SYSTEMS: A CASE STUDY IN ASTURIAS” Covadonga Loreda, N. Roqueñí , F.J. De Cos, C. Crespo</p>
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SCIENCE AND ENGINEERING OF ECO-MATERIALS

SeM - 02	<p>“EXPERIMENTAL STUDY OF HYGROTHERMAL PROPERTIES OF DATE PALM CONCRETE” Haba, B; Chennouf, N.; Boudenne, A. and Agoudjil, B</p>
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STORAGE SYSTEMS AND ENERGY MANAGEMENT

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SS- 02	<p>“OPTIMAL TUNING OF Fractionnal Order PID CONTROLLERS STRATEGIES FOR BUCK CONVERTER” Gam O., Abdou Tankari M., Lefebvre G., Riadh A., Mohamed Fawzi M.</p>
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SUSTAINABILITY AND WASTE TREATMENT

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SW - 02	“PINEAPPLE CORE AS LOW-COST ADSORBENT FOR POLLUTED WASTEWATER TREATMENT” Maria A. Saronroman, Carla Miguez, Marta Cobas, Emilio Rosales, Marta M. Pazos.
SW - 05	“INCORPORATING ELECTRO-FENTON SUSTAINABLE ENVIRONMENTAL PROCESS INTO LIGNIN WASTEWATER TREATMENT” Gabriel Buftia, Emilio Rosales, Marta Pazos, Gabriel Lazar, María A. Sanromán
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SWa - 03	“STRATEGIES OF BIOREMEDIATION FOR THE DEGRADATION OF EMERGING POLLUTANTS” Marta Cobas, Jessica Urgal, Emilio Rosales, Maria A. Sanroman, Marta M. Pazos
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TE -01	<p>“ENVIRONMENT, INNOVATION AND PRODUCTIVITY: APPLICATION OF A CDM MODEL TO THE SPANISH SERVICE SECTOR”</p> <p>Alejandro García-Pozo, Juan Antonio Campos-Soria, Andrés J. Marchante-Mera</p>
TE- 04	<p>“RADIUM ASSESSMENT IN WATER SAMPLES FROM THE FUTURE “BUZAU LAND” GEOPARK”</p> <p>M. Moldovan, B.D. Burgehele, C.A. Roba, H. Mitrofan, C. Buterez</p>
TE - 07	<p>“IMPACT OF THE LOCATION OF RURAL ACCOMMODATION IN NATURAL PROTECTED AREAS FROM CASTILLA Y LEÓN”</p> <p>Villanueva Álvaro J.J, Mondéjar Jiménez J.A, Cordente Rodríguez M., Segovia Moratalla E.</p>