



6th European Meeting on Chemical Industry and Environment
17-19 May 2010
Mechelen (Belgium)

Final Conference Program

Overview

Monday, 17th May 2010

8.00 – 9.00	Registration
9.00 – 10.00	Opening Ceremony
10.00 – 10.20	Coffee break
10.20 – 11.00	Keynote Lecture I
11.00 – 11.40	Keynote Lecture II
11.40 – 12.20	Keynote Lecture III
12.20 – 14.00	LUNCH
14.00 – 15.15	Parallel Sessions
15.15 – 15.45	Coffee Break
15.45 – 17.00	Parallel Sessions

Tuesday, 18th May 2010

9.00 – 10.15	Parallel Sessions
10.15 – 10.45	Coffee break
10.45 – 12.00	Parallel Sessions
12.00 – 12.30	Flash Presentations Posters
12.30 – 14.00	LUNCH
14.00 – 14.30	Flash Presentations Posters
14.30 – 15.45	Parallel Sessions
15.45 – 16.00	Coffee Break
16.00 – 17.15	Parallel Sessions

Wednesday, 19th May 2010

9.00 – 10.15	Parallel Sessions
10.15 – 10.45	Coffee break
10.45 – 12.00	Parallel Sessions
12.00 – 12.30	Flash Presentations Posters
12.30 – 14.00	LUNCH
14.00 – 14.30	Flash Presentations Posters
14.30 – 15.45	Parallel Sessions
15.45 – 16.00	Coffee Break
16.00 – 17.15	Parallel Sessions

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Monday, 17th May 2010		Paper N° <i>Time</i>
Registration 08.00 – 09.00		
Opening Ceremony 09.00 – 10.00		
9.00	Conference Opening by <i>Prof. dr. ir. Raf Dewil</i> Chairman of EMChIE 2010	
9.10	Speech by <i>Dr. sc. Carl Van der Auwera</i> Senior Advisor Science Technology & Innovation – essencia, the Belgian industry federation for Chemistry and Life Sciences	
9.25	Musical Intermezzo	
9.30	Speech by <i>Prof. dr. ir. Karen Maex</i> Vice-rector Science, Engineering and Technology Group – K.U.Leuven	
9.45	Musical Intermezzo	
9.50	Speech by <i>Prof. dr. ir. Joaquim Casal</i> Founder of the EMChIE conference series - Universitat Politècnica de Catalunya	
10.00	Musical Intermezzo	
Keynote Lectures 10.20 – 12.20 Chaired by Raf Dewil Room: Auditorium		
SUPERCRITICAL WATER OXIDATION FOR THE TREATMENT OF HAZARDOUS AND PATHOGENIC EFFLUENTS: AN OVERVIEW <i>Prof. Bushra Al-Duri, University of Birmingham (UK)</i>		<i>10.20 – 11.00</i>
RECENT TRENDS IN CHEMICAL PROCESS DESIGN AND CONTROL: AN OPTIMIZATION PROBLEM WITH ENVIRONMENTAL AND SAFETY CONSTRAINTS <i>Prof. Jan Van Impe, Katholieke Universiteit Leuven (Belgium)</i>		<i>11.00 – 11.40</i>
FROM PROBLEM WASTES TO HIGH VALUE RESOURCES <i>Prof. Ian Thompson, University of Oxford (UK)</i>		<i>11.40 – 12.20</i>
Wastewater Treatment (WATER 1) 14.00 – 15.15 Chaired by Ann Hulsmans Room: Auditorium		
ELECTRODIALYSIS ON RO CONCENTRATE WITH HIGH SCALING POTENTIAL FROM WASTEWATER TREATMENT PLANT <i>Y. Zhang[*], K. Ghyselbrecht, B. Meesschaert, L. Pinoy, B. Van der Bruggen</i>		8 <i>14.00 – 14.25</i>
AUTOMATIC CONTROL FOR PARTIAL NITRIFICATION TO NITRITE WITH A BIOFILM AIRLIFT REACTOR <i>A. Bartrolí, J. Pérez[*], J. Carrera</i>		14 <i>14.25 – 14.50</i>

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INFLUENCE OF HYDRAULIC CONDITIONS ON THE START-UP AND OPERATION OF THE AUTOTROPHIC NITROGEN REMOVAL PROCESS <i>H. Vandeweyer*</i> , <i>S.W.H. Van Hulle</i> , <i>W. Audenaert</i> , <i>A. Monballiu</i> , <i>B. Meesschaert</i> , <i>A. Dumoulin</i>	2 14.50 – 15.15
Risk Analysis and Loss Prevention (RISK 1) 14.00 – 15.15 Chaired by Jan Van Impe Room: Herten Aas	
FIVE DEAD AND FIVE INJURED IN A DDMT PLANT ACCIDENT: INCREDIBLE ERRORS IN THE PLANT DESIGN <i>N. Piccinini*</i> , <i>M. Demichela</i> , <i>P. Amyotte</i> , <i>F. Khan</i>	165 14.00 – 14.25
DYNAMIC RISK ASSESSMENT: A TOOL FOR PROCESS SAFETY ASSESSMENT AND MANAGEMENT <i>F. Khan*</i> , <i>M. Kalantarnia</i>	55 14.25 – 14.50
MODELLING OF POOL FIRES <i>J. Casal</i> , <i>M. Demichela*</i> , <i>R. Pirani</i>	166 14.50 – 15.15
Process Technology and Sustainability (SUST 1) 14.00 – 15.15 Chaired by Regina Santos Room: Dijlezaal	
SUSTAINABILITY – ISSUES AND OPPORTUNITIES FOR THE HIGH VALUE ADDED CHEMICAL INDUSTRIES <i>M.C. Talford*</i> , <i>J. Henry</i>	36 14.00 – 14.25
EVALUATION OF TWO PHARMACEUTICAL WASTE SOLVENT VALORIZATION TECHNIQUES <i>G. Van der Vorst*</i> , <i>P. Swart</i> , <i>W. Aelterman</i> , <i>A. Van Brecht</i> , <i>E. Graauwmans</i> , <i>H. Van Langenhove</i> , <i>J. Dewulf</i>	42 14.25 – 14.50
A NEW RAPID IN-SITU SAMPLING TECHNIQUE FOR EXTRACTION OF SOIL CONTAMINANTS BY SUPERCRITICAL CO ₂ <i>M.N. Baig*</i> , <i>G.A. Leeke</i> , <i>P.J. Hammond</i> , <i>R.C.D. Santos</i>	20 14.50 – 15.15
Wastewater Treatment (WATER 2) 15.45 – 17.00 Chaired by Sven Liers Room: Auditorium	
ECOTOXICITY OF RAW AND PURIFIED AGROCHEMICAL WASTEWATERS <i>J. Zieliński</i> , <i>A.K. Biń*</i> , <i>E. Przybysz</i> , <i>M. Krawczyk</i> , <i>B. Morytz</i> , <i>M. Lewandowska</i> , <i>M. Szyderska</i>	60 15.45 – 16.10
PERFORMANCE ASSESSMENT OF FUNCTIONALIZED ELECTROSPUN NANOFIBERS FOR REMOVAL OF PATHOGENS <i>N. Daels</i> , <i>S. De Vrieze</i> , <i>I. Sampers</i> , <i>B. Decostere</i> , <i>P. Westbroek</i> , <i>A. Dumoulin</i> , <i>P. Dejans</i> , <i>K. De Clerck</i> , <i>S.W.H. Van Hulle*</i>	116 16.10 – 16.35
COD AND TOXICITY REMOVAL FROM AN INDUSTRIAL WASTEWATER <i>J. Dries*</i> , <i>W.De Schepper</i> , <i>L. Geuens</i> , <i>R. Blust</i>	128 16.35 – 17.00

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Renewables from Biomass and Waste (BIOMASS 1) 15.45 – 17.00 Chaired by Lise Appels Room: Dijlezaal	
SUB-CRITICAL WATER MEDIATE HYDROLYSIS AND FRACTIONATION OF LIGNOCELLULOSIC BIOMASS (MISCANTHUS χ GIGANTEUS) <i>R.M.N. Roque*</i> , <i>G. A. Leeke</i> , <i>S. Bowra</i> , <i>R.C.D. Santos</i>	15 <i>15.45 – 16.10</i>
FIBERS DERIVED FROM SHREDDER LIGHT FRACTION <i>A. Bartl*</i>	172 <i>16.10 – 16.35</i>
PROCESSING AND PROPERTIES OF BIODEGRADABLE COMPOSITES BASED ON MATER-Bi® AND HEMPCORE FIBERS <i>L. Barberà</i> , <i>J.P. Lopez</i> , <i>F. Vilaseca*</i> , <i>M.A. Pèlach</i> , <i>J.A. Méndez</i> , <i>P. Mutjé</i>	148 <i>16.35 – 17.00</i>
Powder Technology (POWDER 1) 15.45 – 17.00 Chaired by Andreas Schmidt-Ott Room: Herten Aas	
ON INTERACTIONS OF LARGE SOLID PARTICLES AND SMALL RISING BUBBLES <i>P. Basařová*</i> , <i>M. Hubička</i> , <i>Z. Brabcová</i>	115 <i>15.45 – 16.10</i>
HYDRODYNAMIC STUDY OF AN OPEN-SIDED DRAFT-TUBE CONICAL SPOUTED BED <i>H. Altzibar</i> , <i>G. Lopez*</i> , <i>I. Estiati</i> , <i>M.N. Olazar</i>	40 <i>16.10 – 16.35</i>
BULK SOLIDS MOISTENING WITH SPRAY NOZZLES FOR FUGITIVE DUST SUPPRESSION <i>J. Faschingleitner*</i> , <i>W. Höflinger</i>	43 <i>16.35 – 17.00</i>

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Tuesday, 18th May 2010	Paper N° Time
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STUDY OF THE THERMAL TREATMENT OF SEWAGE SLUDGE FROM THE WWTP OF SANTANDER (SPAIN) <i>J. Fernández*, F. González, B. Ortiz, C. Pesquera, C. Blanco, J. Renedo</i>	86 09.00 – 09.25
POLYELECTROLYTE FLOCCULATION OF WASTE ACTIVATED SLUDGE IN DECANter CENTRIFUGE APPLICATIONS: LAB EVALUATION BY A CENTRIFUGAL COMPACTION TEST <i>B. Peeters*, R. Dewil, J. Van Impe, L. Vernimmen, W. Meeusen, I. Smets</i>	155 09.25 – 09.50
EXTRACTION AND PURIFICATION OF HYDROLYTIC ENZYMES FROM ACTIVATED SLUDGE <i>D. Nabarlatz, F. Stüber, J. Font, A. Fortuny, A. Fabregat, C. Bengoa*</i>	132 09.50 – 10.15
Risk Analysis and Loss Prevention (RISK 2) 09.00 – 10.15 Chaired by Joaquim Casal Room: Begijnzolder	
ESTIMATING THE REMEDIATION COSTS FOLLOWING AN ACCIDENT <i>E. Abatelli, R. Bubbico*, B. Mazzarotta</i>	54 09.00 – 09.25
USE OF HYDROGEN AS ENERGY VECTOR: AN INHERENT SAFETY ANALYSIS <i>A. Tugnoli, G. Landucci, V. Cozzani*</i>	168 09.25 – 09.50
RISK-BASED OPTIMIZATION OF THE DESIGN OF ON-SHORE PIPELINES' SHUTDOWN SYSTEMS <i>H. Medina*, J. Arnaldos, J. Casal, S. Bonvicini, V. Cozzani</i>	21 09.50 – 10.15
Process Technology and Sustainability (SUST 2) 09.00 – 10.15 Chaired by Jan Van Impe Room: Herten Aas	
INTENSIFICATION OF CO ₂ CAPTURE <i>P. Luis*, J. Albo, A. Irabien</i>	87 09.00 – 09.25
TREATMENT OF OIL-IN-WATER EMULSIONS USING UF POLYMERIC MEMBRANE <i>I. Petrinić, J. Korenak*, M. Simonič</i>	99 09.25 – 09.50
EMISSION AND ENERGY MANAGEMENT SYSTEMS. A FIRST STEP TO PREVENT AND REDUCE CO ₂ EMISSIONS IN A PAPER MILL <i>R. Aldrich*, F.X. Llauró, J. Puig, P. Sarquella, E. Franco, M.À. Pèlach</i>	140 09.50 – 10.15

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STABILITY OF BIOMASS WASTES IN CONICAL SPOUTED BEDS WITH A NON-POROUS DRAFT TUBE IN BIOMASS VALORIZATION <i>M.J. San José*, S. Alvarez, A. Ortiz de Salazar, A. Morales, L.B. López</i>	18 12.05 – 12.10
THE LIFE CYCLE ASSESSMENT APPLIED TO URBAN SOLID WASTE MANAGEMENT IN SANTA CLARA CITY, CUBA <i>M.E. López*, R. Santos</i>	25 12.10 – 12.15
ENZYMATIC HYDROLYSIS OF GRAPE POMACE INTO SUGARS FOR SUBSEQUENT BIOETHANOL FERMENTATION <i>A. Díaz, R. Martín, J. Muñoz, A. Blandino, I. de Ory*, I. Caro</i>	35 12.15 – 12.20
RECYCLING OF POLY-(METHYL METHACRYLATE) BY PYROLYSIS IN A CONICAL SPOUTED BED REACTOR <i>M. Artetxe, G. López, M. Amutio*, M. Olazar, G. Elordi, J. Bilbao</i>	37 12.20 – 12.25
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THE ANALYSIS OF SILICA SUSPENSIONS ATOMIZATION <i>M. Ochowiak, L. Broniarz-Press*</i>	41 14.25 – 14.30

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Process Technology and Sustainability (SUST 4) 14.30 – 15.45 Chaired by Bushra Al-Duri Room: Herten Aas	
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NEW POSSIBILITIES FOR THE FILTRATION BEHAVIOUR CHARACTERISATION OF CLEANABLE FILTER MEDIA <i>J. Schuberth*, G. Mauschwitz, W. Höflinger</i>	28 14.55 – 15.20
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Advanced Oxidation Processes (AOP 1) 14.30 – 15.45 Chaired by Jan Luyten Room: Dijlezaal	
REMEDIATION OF TEXTILE WASTEWATERS BY MEANS OF FENTON AND BIOLOGICAL-FENTON COUPLED PROCESSES <i>M.N. Abellán, J. Blanco, M. de la Varga, F. Torrades, D. Galí, J. García-Montaño, S. Martínez Lozano*</i>	46 14.30 – 14.55
NEW FEED SYSTEM FOR INJECTION OF HIGH CONCENTRATED INDUSTRIAL WASTEWATERS IN SUPERCRITICAL WATER OXIDATION <i>M.B. García-Jarana*, V. Vadillo, J. Sánchez-Oneto, J. Ramón Portela, E.J. Martínez de la Ossa</i>	119 14.55 – 15.20
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THE EXTRACTION OF VALUABLE COMPOUNDS FROM STRAW DEGRADED BY <i>PLEUROTUS OSTREATUS</i> <i>C.I. Koncsag*, D. Eastwood, A.E.C. Collis, K. Burton, K. Kirwan</i>	13 16.00 – 16.25
PRODUCTION OF OLEFINS VIA STEAM CRACKING OF VEGETABLE OILS <i>P. Zámotný*, Z. Bělohav, J. Šmidrka</i>	91 16.25 – 16.50
ASSESSMENT OF STEAM REFORMING OF THE AQUEOUS FRACTION OF BIO-OIL FOR SYNGAS PRODUCTION AND ENERGY <i>F. Bimbela, M. Oliva, J. Ruiz, L. García, J. Arauzo*</i>	112 16.50 – 17.15

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Advanced Oxidation Processes (AOP 2) 16.00 – 17.15 Chaired by Andrzej Bin Room: Herten Aas	
PHENOL AND ACETATE DEGRADATION BY O ₃ AND O ₃ /UV: QUANTIFYING THE INFLUENCE OF UV <i>W. Van de Moortel[*], K. Van Eyck, S. Liers, J. Degrève, J. Luyten</i>	167 16.00 – 16.25
REMOVAL OF BENZOTHAZOLS BY OZONE PRETREATMENT <i>J. Derco[*], M. Melicher, A. Kassai</i>	100 16.25 – 16.50
APPLICABILITY OF ACTIVATED CARBON AND OZONATION AS AN AOP <i>L. Braeken[*], P. Bex, J. Vandereyken, M. Lynen, J. Luyten</i>	150 16.50 – 17.15
Powder Technology (POWDER 3) 16.00 – 17.15 Chaired by Andreas Schmidt-Ott Room: Begijnzolder	
THE DEVELOPMENT OF STANDARD TESTS FOR FILTRATION CHARACTERIZATION OF CLEANABLE DUST FILTER MEDIA <i>G. Mauschitz[*], J. Schuberth, W. Höflinger</i>	10 16.00 – 16.25
A NEW APPROACH TO DERIVING PARTICLE SIZE FRACTIONS FROM A LASER OPTICAL DUST CLOUD MEASUREMENT <i>S. Bach[*], E. Schmidt</i>	73 16.25 – 16.50
REDUCTION OF PM ₁₀ EMISSIONS OF ROAD SWEEPERS BY USE OF ELECTROSTATIC PRECIPITATORS <i>M. Kaul[*], E. Schmidt</i>	39 16.50 – 17.15

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Wednesday, 19th May 2010	Paper N° time
Wastewater Treatment (WATER 3) 09.00 – 10.15 Chaired by Ilse Smets Room: Begijnzolder	
EVALUATION OF DISINFECTION TECHNIQUES FOR THE TREATMENT OF BIOFILMS IN REUSED PROCESS WATER <i>E. Vankerckhoven[*], B. Verbessem, J. Dens, A. Van Assche, K. Willems, H. Rediers</i>	121 <i>09.00 – 09.25</i>
TOXICITY IDENTIFICATION AND EVALUATION OF TANK TRUCK CLEANING EFFLUENT <i>Wim De Schepper[*], J. Dries, L. Geuens, R. Blust</i>	85 <i>09.25 – 09.50</i>
REDUCING ENVIRONMENTAL HAZARDS OF WASTEWATER <i>J. Zieliński, A.K. Biń[*], B. Morytz, M. Lewandowska</i>	61 <i>09.50 – 10.15</i>
Renewables from Biomass and Waste (BIOMASS 5) 09.00 – 10.15 Chaired by Eberhard Schmidt Room: Dijlezaal	
PYROLYSIS KINETICS OF BAMBOO MATERIAL <i>G. Potters[*], G. Schoeters, T. Tytgat, G. Horvath, C. Ludecke, P. Cool, S. Lenaerts, L. Appels, R. Dewil</i>	178 <i>09.00 – 09.25</i>
CAN FIBREGLASS BE REPLACED BY NATURAL FIBERS IN THE REINFORCEMENT OF POLYPROPYLENE? <i>J.P. López, F. Vilaseca, J.A. Méndez[*], M.A. Pèlach, P. Mutjé</i>	146 <i>09.25 – 09.50</i>
A NEW VALORISATION STRATEGY OF OLIVE MILL WASTEWATER: IMPREGNATION ON SAWDUST AND COMBUSTION <i>A. Chouchène, M. Jeguirim[*], G. Trouvé, A.F. Règuillon, G. Le Buzit</i>	9 <i>09.50 – 10.15</i>
Process Technology and Sustainability (SUST 5) 09.00 – 10.15 Chaired by Wilhelm Höflinger Room: Herten Aas	
DEINKING PAPER MILL SLUDGE AS FILLER IN HDPE COMPOSITES <i>F. Vilaseca, C. Monte[*], D. Hermosilla, M.A. Pèlach, A. Blanco, C. Negro, P. Mutjé</i>	147 <i>09.00 – 09.25</i>
POSSIBILITIES TO DETERMINE LENGTH AND WIDTH OF RECYCLED SHORT FIBERS <i>D. Pico, M. Gröstlinger, A. Bartl[*]</i>	173 <i>09.25 – 09.50</i>
THE USE OF COMPUTATIONAL FLUID DYNAMIC FOR IMPROVING HIGH RATE ALGAE POND (HRAP) DESIGN <i>Hadiyanto[*], T. Van Gerven, A. Stanckiewicz</i>	6 <i>09.50 – 10.15</i>

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Wastewater Treatment (WATER 4) 10.45 – 12.00 Chaired by Bushra Al-Duri Room: Herten Aas	
EXTENSION OF EDUCATIONAL TRAINING SYSTEM FOR DESIGN OF EFFICIENT WATER TREATMENT – EVOLVING TO ED-WAVE-2 <i>Y. Avramenko[*], A. Kraslawski</i>	151 <i>10.45 – 11.10</i>
CRYPTIC GROWTH BY ULTRASONIC SLUDGE DISINTEGRATION OF RETURN ACTIVATED SLUDGE <i>N. Lambert[*], A. Hulsmans, S. Houtmeyers, S. Liers, J. Van Impe, I. Smets, R. Dewil</i>	171 <i>11.10 – 11.35</i>
THE REMOVAL OF NATURAL ORGANIC MATTER AND INORGANIC SALTS IN NANOFILTRATION CONCENTRATES <i>S. Van Geluwe[*], L. Braeken, C. Vinckier, B. Van der Bruggen</i>	12 <i>11.35 – 12.00</i>
Renewables from Biomass and Waste (BIOMASS 6) 10.45 – 12.00 Chaired by Raf Dewil Room: Dijlezaal	
ENGINEERING OF THERMOPLASTIC COMPOSITES FILLED WITH NATURAL MATERIALS INTENDED TO FRUIT AND VEGETABLE PACKAGING APPLICATION <i>J. Bayer[*], F. Vilaseca, J. Puig, J.A. Mendez, M.A. Pèlach, L. Peña, P. Mutjé</i>	145 <i>10.45 – 11.10</i>
PROPERTIES OF WASTE DERIVED FIBERS <i>S.A. Haner[*], A. Bartl</i>	174 <i>11.10 – 11.35</i>
FILTRATION OF LIGNIN FROM A LIGNOCELLULOSE BASED ETHANOL PILOT PLANT <i>K. Dingwell[*], M. Sedin, H. Theliander</i>	30 <i>11.35 – 12.00</i>
Process Technology and Sustainability (SUST 6) 10.45 – 12.00 Chaired by Geert Potters Room: Begijnzolder	
HUMAN MATERIAL – INDICATOR OF AIR POLLUTION <i>T. Vukavić, M. Vojinović Miloradov[*], J. Sudi, A. Ristivojević, I. Mihajlović</i>	45 <i>10.45 – 11.10</i>
ENVIRONMENTAL RISKS OF MAGNETIC IONIC LIQUIDS: ECOTOXICITY <i>P. Luis[*], J. Albo, A. Irabien</i>	88 <i>11.10 – 11.35</i>
ENVIRONMENTAL BURDENS ASSESSMENT (LCA) OF ELECTRIC ENERGY IN MUNICIPAL WASTEWATER TREATMENT PLANTS <i>A. Fuente-Martin, A. Dominguez-Ramos[*], R. Aldaco, A. Irabien</i>	83 <i>11.35 – 12.00</i>

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Flash Presentation Posters (POSTER 6) 12.00 – 12.30 Chaired by Andrzej Bin Room: Dijezaal	
REMOVAL OF LEAD FROM AQUEOUS SOLUTION BY POLYSACCHARIDE PRODUCED FROM <i>PAENIBACILLUS POLYMYXA</i> <i>H. Mokaddem*, Z. Sadaoui, Y. Kaci, N. Azouaou</i>	101 12.00 – 12.05
INTENSIFICATION AND SUSTAINABILITY OF GAS-PHASE OXIDATION BY HYDROGEN PEROXIDE <i>U.V.Nasirova, I.T.Nagieva, C.A.Mustafaeva, L.M.Gasanova, T.M.Nagiev*</i>	117 12.05 – 12.10
RECALCITRANCE REMOVAL OF PRETREATED LANDFILL LEACHATE BY OZONE-BASED OXIDATION PROCESSES <i>P. Van Aken*, K. Van Eyck, J. Luyten, J. Degrève, S. Liers</i>	122 12.10 – 12.15
EFFECT OF DIFFERENT SURFACTANTS ON THE DEINKING EFFICIENCY AND ON THE WASTE WATER FROM THE DEINKING PROCESS <i>M.C. Lobato, F. Vilaseca*, M.A. Pèlach, P. Mutjé</i>	154 12.15 – 12.20
KINETICS OF THE PHENOL BIODEGRADATION by <i>Cupriavidus Taiwaneseis</i> 187 <i>Y-H. Wei*, S-M. Chang</i>	169 12.20 – 12.25
EXPERIMENTAL DESIGN APPROACH FOR OPTIMIZATION OF COMPLEXATION-ULTRAFILTRATION PROCESS FOR REMOVAL OF COBALT IONS FROM WATER SOLUTIONS <i>A. Jaworska, N. Uzal, A. Miskiewicz*, G. Zakrzewska-Trznadel, C. Cojocar</i>	170 12.25 – 12.30
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APPLICATION OF THE LIFE CYCLE ASSESSMENT TO THE ENVIRONMENTAL EVALUATION OF THE CO-GENERATION PROCESS IN THE SUGAR INDUSTRY <i>M. Pérez*, A.M Contreras, E. Rosa</i>	90 12.00 – 12.05
CATALYTIC STEAM REFORMING OF THE AQUEOUS FRACTION OF BIO-OIL WITH SUSTAINABLE FLUIDIZED BED CATALYST <i>J.A. Medrano, M. Oliva, J. Ruiz, L. García, J. Arauzo*</i>	113 12.05 – 12.10
CATALYTIC EFFECTS AT THE VEGETAL MATERIALS PYROLYSIS <i>T. Dobre, O.C. Pârvulescu, L. Ceatră*, M. Stroescu, G. Iavorschi</i>	134 12.10 – 12.15
EVALUATION OF HEMP CORE FIBERS FOR PAPERMAKING PURPOSES <i>J. Flandez, M.A. Pèlach, M.C. Monte*, M. Llop, P. Mutjé</i>	141 12.15 – 12.20
WASTE MINIMIZATION BY PREPARATION OF BIOCOMPOSITES BY INCORPORATION OF TRITICALE FIBERS TO RECYCLED HDPE <i>J. Bayer*, F. Vilaseca, L. Peña, M.A. Pèlach, J.A. Méndez, P. Mutjé</i>	142 12.20 – 12.25
MAIZE GRAIN FOR BIOETHANOL, AND THE CORN STALKS? <i>L. Peña, J. Girones, J.A. Mendez*, M.A. Pelach, F. Vilaseca, P. Mutjé</i>	153 12.25 – 12.30

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ACID CLAY AND DISTILLATION PROCESSES FOR USED OIL RECYCLING <i>H.J. Koroglu*, E. Erpek, İ.E. Kalafatoglu</i>	89 12.00 – 12.05
ELABORATION AND CHARACTERIZATION OF NEW POLYMERIC MEMBRANES WITH COMPLEXING PROPERTIES <i>F. Smail, M. Amara*, H. Kerdjoudj</i>	95 12.05 – 12.10
THE MODELING OF OUTDOOR AIR POLLUTANTS ON THE SECONDARY LANDSCAPE <i>M. Feszterová*</i>	108 12.10 – 12.15
OPTIMIZATION OF HETEROGENEOUS BATCH EXTRACTIVE DISTILLATION WITH NON NEGLIGIBLE HEAT EFFECTS <i>A. Arias Barreto*, I. Rodríguez Donis, V. Gerbaud, X. Joulia</i>	123 12.15 – 12.20
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SYNTHESIS, CHARACTERIZATION AND APPLICATION OF ALKYLIMINODIMETHYLENE DIPHOSPHONIC ACIDS IN SOLVENT EXTRACTION OF IRON (III) <i>M. Bouhoun Ali*, A.Y. Badjah-Hadj-Ahmed, M. Attou, A. H. Elias</i>	126 12.25 – 12.30
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APTITUDE OF ORGANOSOLV CORN STALK FIBERS TO FLUTING PAPER PRODUCTION <i>J. Flandez, M.A. Pèlach*, F. Vilaseca, M.C. Monte, J. Tijero, P. Mutjé</i>	160 14.05 – 14.10
REMOVAL OF LEAD FROM AQUEOUS SOLUTION BY ADSORPTION ONTO COFFEE GROUNDS <i>N. Azouaou*, Z. Sadaoui, A. Djaafri</i>	102 14.10 – 14.15
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ALGERIAN BENTONITE AS ADSORBENT FOR THE REMOVAL OF Pb^{2+} , Cu^{2+} AND Ni^{2+} FROM THE AQUEOUS SYSTEM <i>F. Mohammed-Azizi, S. Dib, M. Boufatit*</i>	161 14.25 – 14.30
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SOLVENT EXTRACTION OF URANIUM (VI) FROM NITRIC ACID SOLUTION BY ALKYLHYDROXYDIPHOSPHONIC ACIDS <i>M. Bouhoun Ali*, A.Y. Badjah-Hadj-Ahmed, M. Attou, A. H. Elias</i>	127 14.00 – 14.05
STUDIES OF CuO/ CeO_2 CATALYST PREPARED BY WETNESS IMPREGNATION FOR LWGS REACTION <i>N. Gamboa*, J.L. Ayastuy, M.P. González-Marcos, M.A. Gutiérrez-Ortiz</i>	129 14.05 – 14.10
MODELS TO ESTIMATE THERMAL CONDUCTIVITY OF MULTICOMPONENT BED USED AS INSULATING COMPOSITE SUPPORT <i>T. Dobre, M. Stroescu, O.C. Pârvulescu, A. Stoica, F. Tache, G. Iavorschi, L. Ceatră*</i>	135 14.10 – 14.15
ON THE REACTION KINETICS OF H_2S REMOVAL FROM SYNGAS WITH ZNO AT HIGH TEMPERATURE <i>A. Lallai*, C. Frau, G. Mura</i>	144 14.15 – 14.20
OPTIMIZATION OF HETEROGENEOUS BATCH EXTRACTIVE DISTILLATION WITH NONNEGLECTIBLE HEAT EFFECTS <i>A. Arias Barreto*, I. Rodríguez Donis, V. Gerbaud, X. Joulia</i>	157 14.20 – 14.25
Adsorption Processes (ADSORP 1) 14.30 – 15.45 Chaired by Bart Peeters Room: Begijnzolder	
ADSORPTION OF COPPER AND A TEXTILE METAL COMPLEX DYE ON ACTIVATED CARBON DERIVED FROM TUNISIAN OLIVE-WASTE CAKES <i>R. Baccar*, M. Sarrà, P. Blánquez, J. Bouzid, M. Feki</i>	19 14.30 – 14.55
REMOVAL OF DISSOLVED ORGANIC CONTAMINANTS BY A CONTINUOUS PROCESS USING ADSORPTION AND ELECTROCHEMICAL REGENERATION <i>F.M. Mohammed*, E.P.L. Roberts, A.K. Campen, N.W. Brown</i>	67 14.55 – 15.20
ADSORPTION ISOTHERM ON MIXED SILICA GEL AND ACTIVATED CARBON <i>B. Firouzbakht, A.A. Safekordi*, S.H. Ahmadi Afshar, G. Ordookhani</i>	136 15.20 – 15.45
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DEGRADATION OF PHENANTHRENE BY A MIXED BACTERIAL CULTURE OBTAINED FROM A FORMULATED MICROBIAL PRODUCT <i>A. Lallai, G. Mura, A. Chindris*</i>	138 14.30 – 14.55

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<p>DETOXIFICATION OF MUNICIPAL SOLID WASTE FLY ASH AND SEWAGE SLUDGE ASH <i>B. Nowak*</i>, <i>P. Aschenbrenner</i>, <i>L. Hermann</i>, <i>H. Mattenberger</i>, <i>H. Rechberger</i>, <i>F. Winter</i></p>	<p>130 14.55 – 15.20</p>
<p>ENERGY PRODUCTION FROM WASTEWATERS' CARBOHYDRATES <i>F.J. Fernández*</i>, <i>J. Villaseñor</i>, <i>A. González del Campo</i>, <i>D. Infantes</i></p>	<p>59 15.20 – 15.45</p>
<p>Process Technology and Sustainability (SUST 7) 14.30 – 16.10 Chaired by Jan Luyten Room: Herten Aas</p>	
<p>PARTITION COEFFICIENT K_{OA} AS INDICATOR OF GAS-PARTICLE PARTITIONING OF PAHS AND PCBs AT INDUSTRIAL AND URBAN SITES IN VOJVODINA AREA, SERBIA <i>J. Radonic</i>, <i>M. Vojinovic Miloradov</i>, <i>M. Turk Sekulic</i>, <i>M. Djogo</i>, <i>J. Kiurski</i>, <i>D. Milovanovic*</i></p>	<p>44 14.30 – 14.55</p>
<p>CHARACTERIZATION OF SOLID AND GASEOUS POLLUTANTS DURING THERMAL DECOMPOSITION OF A PESTICIDE: CASE OF MANCOZEB <i>N. Giroud*</i>, <i>S. Dorge</i>, <i>G. Trouvé</i></p>	<p>118 14.55 – 15.20</p>
<p>CONVERSION AND YIELDS OBTAINED IN THE CRACKING OF ATMOSPHERIC RESIDUE AND VGO USING HZSM-5 AS ADDITIVE <i>J. Ereña*</i>, <i>J.M. Arandes</i>, <i>I. Torre</i>, <i>M.J. Azkoiti</i>, <i>M. Olazar</i>, <i>J. Bilbao</i></p>	<p>79 15.20 – 15.45</p>
<p>EFFECT OF ADDITIONAL MEASURES WHEN EVALUATING SHELTER IN PLACE EFFECTIVENESS IN THE CASE OF A TOXIC GAS RELEASE <i>M.I. Montoya*</i>, <i>E. Planas</i></p>	<p>1 15.45 – 16.10</p>
<p>Process Technology and Sustainability (SUST 8) 16.00 – 17.15 Chaired by Stijn Van Hulle Room: Begijnzolder</p>	
<p>VALIDATION OF A DEACTIVATION KINETIC MODEL FOR THE SYNTHESIS OF DME UNDER DIFFERENT OPERATING CONDITIONS <i>I. Sierra</i>, <i>A. Ateka</i>, <i>J. Ereña*</i>, <i>A.T. Aguayo</i>, <i>A.G. Gayubo</i>, <i>J. Bilbao</i></p>	<p>78 16.00 – 16.25</p>
<p>APPLICATION OF PHOTO-IMPINGING STREAMS REACTOR IN DEGRADATION OF PHENOL IN AQUEOUS TiO_2 SUSPENSION <i>S. Javid Royae</i>, <i>M. Sohrabi*</i></p>	<p>7 16.25 – 16.50</p>
<p>DETERMINATION OF OPTIMIZED ORDER OF REACTION FOR THE REMOVAL OF SO_2 BY LIME STONE USING FLUENT 6.2 <i>A. Hamid*</i>, <i>M. Nadeem</i>, <i>A. Imtiaz</i></p>	<p>162 16.50 – 17.15</p>
<p>Renewables from Biomass and Waste (BIOMASS 8) 16.00 – 17.15 Chaired by Ann Hulsmans Room: Dijlezaal</p>	
<p>INFLUENCE OF TEMPERATURE IN THE PYROLYSIS OF BIOMASS IN A CONICAL SPOUTED BED REACTOR <i>M. Amutio*</i>, <i>G. Lopez</i>, <i>M. Artetxe</i>, <i>G. Elordj</i>, <i>M. Olazar</i>, <i>J. Bilbao</i></p>	<p>38 16.00 – 16.25</p>

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ENVIRONMENTAL SUSTAINABILITY ASSESSMENT OF CLEAN AND CLEANER COAL COMBUSTION <i>J. Cristóbal*</i> , <i>A. Dominguez-Ramos</i> , <i>J. Albo</i> , <i>A. Irabien</i>	76 <i>16.25 – 16.50</i>
MEAT AND BONE MEAL AND COAL CO-GASIFICATION: ENVIRONMENTAL ADVANTAGES <i>E. Cascarosa*</i> , <i>L. Gasco</i> , <i>G. García</i> , <i>G. Gea</i> , <i>J. Arauzo</i>	114 <i>16.50 – 17.15</i>