

**POSTERS SESSION 1: Monday 9 May & Tuesday 10 May****BIOMASS / FAST PYROLYSIS**

- P1001 POTENTIAL OF VIRGINIA MALLOW AS AN ENERGY FEEDSTOCK FOR FAST PYROLYSIS PROCESSING**  
Banks Scott (1), Nowakowski Daniel (1), Snieg Malwina (2), Stolarski Mariusz (2), Bridgwater Tony  
1 - Bioenergy Research Group (United Kingdom), 2 - Department of Plant Breeding and Seed Production (Poland)
- P1002 CARBON-13 ISOTOPE SPECTROMETRY FOR FAST PYROLYSIS CHEMISTRY**  
Carrier Marion (1), Bridgwater Anthony (1)  
1 - European Bioenergy Research Institute, Aston University (United Kingdom)
- P1003 FAST PYROLYSIS OF DIFFERENTLY-TREATED OKRA (ABELMOSCHUS ESCULENTUS) STALKS BY PY-GC/MSD**  
Ghalibaf Maryam (1)  
1 - University of Jyväskylä (Finland)
- P1004 INHIBITION OF CHAR FORMATION FROM CELLULOSE IN FAST PYROLYSIS WITH AROMATIC SUBSTANCES**  
Kawamoto Haruo (1), Shoji Taeko, Saka Shiro  
1 - Kyoto University (Japan)
- P1005 BIOFUELS DEVELOPMENT BY FAST PYROLYSIS PROCESS FROM BIOMASS IN KOREA**  
Kim Jae-Kon (1), Park Jo Yong (1), Park Cheon-Kyu (1), Ha Jong Han (1), Oh Chang Ho (2)  
1 - Petroleum Quality & Distribution Authority(K-Petro) (South Korea), 2 - DAEKYUNG ESCO (South Korea)
- P1006 AMMONIA AS CARRIER GAS IN FLUIDIZED-BED FAST PYROLYSIS AND ITS EFFECTS ON BIO-OIL YIELD AND PROPERTIES**  
Liu Yunquan (1), Zhu Shenjia (1), Wang Duo (1)  
1 - Xiamen University (China)
- P1007 FAST PYROLYSIS PROCESSING OF MISCANTHUS X GIGANTEUS USED IN PHYTOREMEDIATION FOR PRODUCTION OF FUELS AND CHEMICALS**  
Nowakowski Daniel Jozef (1), Banks Scott, Mos Michal, Bridgwater Tony  
1 - European Bioenergy Research Institute, Aston University (United Kingdom)
- P1008 FAST PYROLYSIS OF BAGASSE AND GROUNDNUT BRIQUETTES USING PY-GC/MS AND PY-FT-IR**  
Ojha Deepak (1), Ravikrishnan Vinu  
1 - PhD Candidate (India)
- P1009 MIGRATION OF AAEMS AND CHLORIDE DURING BIOMASS PYROLYSIS IN AN ENTRAINED FLOW REACTOR**  
Yin Xin (1)  
1 - Ping LU (China)
- P1010 IMPACT OF HOT WATER PRETREATMENT ON THE PYROLYSIS OF BIRCH AND SPRUCE WOOD**  
Zhurinsk Aivars (1), Dobele Galina (2), Jurkane Vilhelmine (2), Meile Kristine (2), Plavniece Ance (2)  
1 - Latvian State Institute of Wood Chemistry (Latvia), 2 - Latvian State Institute of Wood Chemistry (Latvia)
- BIOMASS / KINETICS**
- P1011 KINETIC MODEL OF THE PYROLYSIS OF BIOMASS COAL BRIQUETTES**  
Barriocanal Carmen (1), Florentino Laura, Montiano Maria, Diaz-Faes Elvira  
1 - Instituto Nacional del Carbon - Consejo Superior de Investigaciones Cientificas (Spain)
- P1012 COMBUSTION CHARACTERISTICS AND KINETIC ANALYSIS OF HYDROTHERMALLY DERIVED AND PYROLYTIC CARBON MATERIALS**  
Bin Li (1), Min Zhao (1), Nan Deng (1), Ke Zhang (1)  
1 - Zhengzhou Tobacco Research Institute of CNTC (China)
- P1013 KINETIC MODELS FOR THE PYROLYSIS OF BIOMASS FUEL IN A DROP TUBE FURNACE.**  
Brilhac Jean-François (1)  
1 - Laboratoire Gestion des Risques et Environnement, Université de Haute Alsace (France)
- P1014 SIGNIFICANCE OF THE ACTIVATION ENERGY AND ITS IMPLICATIONS FOR BIOMASS PYROLYSIS KINETICS**  
Carrier Marion (1), Auret Lidia (2), Bridgwater Anthony (1), Knoetze Hansie (2)  
1 - European Bioenergy Research Institute, Aston University (United Kingdom), 2 - Université de Stellenbosch (South Africa)
- P1015 BIOMASS PYROLYTIC POLYGENERATION: EVOLUTION OF BAMBOO CHAR STRUCTURE**  
Chen Yingquan (1), Yang Haiping (2), Chen Hanping (2)  
1 - State Key Laboratory of Coal Combustion Huazhong University of Science and Technology (China), 2 - State Key Laboratory of Coal Combustion Huazhong University of Science and Technology (China)
- P1016 GAS-PHASE REACTION MECHANISMS OF LEVOGLUCOSAN AS THE INTERMEDIATE OF BIOMASS GASIFICATION**  
Fukutome Asuka, Kawamoto Haruo (1), Saka Shiro  
1 - Kyoto University (Japan)
- P1017 PYROLYSIS AND COMBUSTION KINETIC STUDY OF HYDROTHERMALLY CARBONIZED GLUCOSE-GRAPHENE OXIDE HYBRIDS**  
Ke Zhang (1), Bin Li (1), Min Zhao (1), Jiaxiao Cai (1)  
1 - Zhengzhou Tobacco Research Institute of CNTC (China)
- P1018 FIRST PRINCIPLES BASED KINETIC MODEL FOR BIOMASS FAST PYROLYSIS: CYCLIC MODEL COMPOUNDS**  
Khandavilli Muralikrishna (1)  
1 - Ghent University (Belgium)
- P1019 EXPERIMENTAL TESTS AND NUMERICAL MODELING OF BIOMASS PYROLYSIS IN A VERTICAL- TUBE REACTOR**  
Lorreyte Clarisse (1), Randrianalisoa Jaona (1), Pron Herve (1), Haussener Sophia (2)  
1 - Groupe en Recherche en Sciences pour l'Ingénieur (France), 2 - Laboratory of renewable energy science and engineering (Switzerland)
- P1020 EVALUATION OF THE BEHAVIOR OF COLOMBIAN BIOMASS UNDER CONDITIONS OF PYROLYSIS AND GASIFICATION OF BIOCHAR: A KINETIC APPROACH**  
Marrugo Escobar Gloria, Chejne Farid (1), Valdes Carlos (1)  
1 - Universidad Nacional de Colombia (COLOMBIA) (Colombia)
- P1021 LEVOGLUCOSAN FORMATION FROM CELLULOSE: PYROLYSIS MECHANISM IN THE PRESENCE OF RADICAL-FORMING SPECIES**  
Mattonai Marco, Ribechini Erika (1), Colombini Maria Perla  
1 - Dipartimento di chimica e chimica industriale, Università di Pisa (Italy)
- P1022 DENSIFIED MICROALGAE AS A PRECURSOR FOR SYN-GAS PRODUCTION**  
Roman Suero Silvia (1), Ledesma Cano Beatriz (1), Alvarez-Murillo Andres (1), Gonzalez Gonzalez Juan Félix (1)  
1 - Universidad de Extremadura - Uex (SPAIN) (Spain)

**POSTERS SESSION 1: Monday 9 May & Tuesday 10 May**

- P1023 COMPARATIVE KINEMATIC STUDY OF PRE AND NON-PRE-TREATED VINEYARD WOODY RESIDUES**  
Rosas Mayoral J. Guillermo (1), Suarez Sergio (1), Gomez Natalia (1), Martinez Olegario (1), Cara Jorge (1), Sanchez Marta (1)  
1 - Institute of Natural Resources, Chemical and Environmental Engineering Group, University of Leon (Spain)
- P1024 EXPERIMENTAL STUDY ON THE INITIAL THERMAL DECOMPOSITION OF RESORCINOL**  
Vargas Diana (1) (2), Toraman Hilal (2), Carstensen Hans-Heinrich (2), Almeida Streitwieser Daniela (1), Van Geem Kevin (2), Marin Guy (2)  
1 - Departamento de Ingenieria Quimica, Universidad San Francisco de Quito (Ecuador), 2 - Laboratory for Chemical Technology, Ghent University (Belgium)
- P1025 ENHANCED THERMAL SEGREGATION OF LIGNIN AND CELLULOSE DECOMPOSITION PRODUCTS: AN ANALYTICAL STUDY OF TIME AND TEMPERATURE EFFECTS**  
Waters Christopher (1), Crossley Steven (1), Resasco Daniel (1), Mallinson Richard (1), Lobban Lance (1)  
1 - University of Oklahoma (United States)
- P1026 UPGRADING OF RICE STRAW AND LEUCAENA BY DEGRADATIVE SOLVENT EXTRACTION USING 1-METHYLNAPHTHALENE AND KEROSENE AT 350 OC**  
Worasuwannarak Nakorn (1)  
1 - King Mongkut's University of Technology Thonburi (Thailand)
- P1027 CELLULOSE, XYLAN AND LIGNIN INTERACTIONS DURING PYROLYSIS OF LIGNOCELLULOSIC BIOMASS**  
Yu Jie (1), Paterson Nigel (1), Millan Marcos (1)  
1 - Department of Chemical engineering [Imperial College London] (United Kingdom)
- BIOMASS / SLOW PYROLYSIS**
- P1028 SLOW PYROLYSIS OF CHILEAN OAK: CHARACTERIZATION OF VOLATILE EMISSIONS AND BIO-OIL BY GC/MS**  
Alejandro Serguei (1), Cerda Cristian , Montecinos Adan  
1 - Wood Engineering Department, Faculty of Engineering, University of Bio-Bio (Chile)
- P1029 CHARACTERIZATION OF THE LIQUID BY-PRODUCTS OBTAINED DURING TORREFACTION OF TYPICAL HUNGARIAN BIOMASS WASTE MATERIALS**  
Barta-Rajnai Eszter (1), Sebestyan Zoltan (1), Czegeny Zsuzsanna > (1), Jakab Emma (1)  
1 - Hungarian Academy of Sciences, Research Centre for Natural Sciences (Hungary)
- P1030 EVALUATION OF LIGNIN HYDROUS PYROLYSIS RESIDUES TO PRODUCE BIOCOKES AFTER CARBONIZATION**  
Castro Diaz Miguel (1), Uguna Clement (2) (1), Stevens Lee (1), Diaz-Faes Elvira (3), Barriocanal Carmen (3), Snape Colin (1)  
1 - University of Nottingham (United Kingdom), 2 - Centre for Environmental Geochemistry, British Geological Survey (United Kingdom), 3 - Instituto Nacional del Carbon - Consejo Superior de Investigaciones Cientificas (Spain)
- P1031 THERMOGRAVIMETRIC ANALYSIS, COMPOSITION AND PORE DEVELOPMENT DURING PYROLYSIS OF COCONUT CORE**  
Duarte Shirley (1) (2), Lu Pin (1), Rolon Juan (3), Monteiro Gonçalo (4) (1), Perré Patrick (1)  
1 - Laboratoire de Génie des procédés et matériaux, CentraleSupélec (French Southern and Antarctic Territories), 2 - Faculty of Chemicals Sciences - National University of Asuncion (Paraguay), 3 - Faculty of Engineering, National University of Asuncion (Paraguay), 4 - Faculty of Engineering, University of Porto (Portugal)
- P1032 PREPARATION OF HIGH SURFACE AREA-ACTIVATED CHAR FROM BIO-CHAR BY KOH ACTIVATION AND ITS APPLICATION IN PHENOL ADSORPTION**  
Hwang Hyewon (1), Sahin Olga (2), Choi Joon Weon (3)  
1 - Department of Forest Sciences, CALS, Seoul National University (SNU) (South Korea), 2 - Institut fuer Katalyseforschung und -technologie (IKFT), Karlsruhe Institute of Technology (Germany), 3 - Graduate School of International Agricultural Technology, Institute of Green-Bio Science and Technology, Seoul National University (South Korea)
- P1033 TORREFACTION AS A PRE-TREATMENT FOR FLASH PYROLYSIS: A CHAIN ANALYSIS**  
Louwes Alexander , Bramer Eddy (1), Brem Gerrit (1)  
1 - Thermal Engineering - University of Twente (Netherlands)
- P1034 EXOTHERMAL PHENOMENA DURING TORREFACTION OF WOOD CHIPS**  
Melkior Thierry (1)  
1 - Commissariat à l'Energie Atomique et aux Energies Alternatives (France)
- P1035 OPTIMISATION OF TORREFACTION AND PYROLYSIS OF INVASIVE ALIEN PLANTS FOR ENERGY APPLICATIONS**  
Mundike Jhonnah (1), Collard Francois-Xavier, Gorgens Johann  
1 - Stellenbosch University (South Africa)
- P1036 CHARACTERIZATION OF ACTIVATED CARBONS OBTAINED FROM DIFFERENT BAMBOO RESIDUE CARBONIZATES**  
Ngamyng Chatri (1), Rodriguez Correa Catalina (1), Kruse Andrea (1)  
1 - University of Hohenheim (Germany)
- P1037 ASSESSMENT OF THE TECHNICAL FEASIBILITY OF ACTIVATED CARBON PRODUCTION FROM HYDROCHAR**  
Rodriguez Correa Catalina (1), Suwelack Kay (2) (1), Kruse Andrea (1)  
1 - University of Hohenheim (Germany), 2 - Fraunhofer Institute for Technological Trend Analysis (Germany)
- P1038 TGA/DSC STUDY OF ENERGY FLOWS FROM BIOMASS SLOW PYROLYSIS**  
Roy-Poirier Audrey (1), Mignard Dimitri (2), Masek Ondrej (2), Pritchard Colin (2)  
1 - National Research Council Canada (Canada), 2 - University of Edinburgh (United Kingdom)
- P1039 IMPROVED CHARCOAL YIELD FROM PYROLYSIS OF BIOMASS FOR HEATING FUEL**  
Russell Scott (1), Snape Colin (1), Langston Paul (1), Turrion Juan (2)  
1 - University of Nottingham (United Kingdom), 2 - CPL Industries (United Kingdom)
- P1040 FINITE ELEMENT AND SPACE-TIME INTEGRAL MODELS FOR BIOMASS TORREFACTION**  
Shi Xiaogang (1), Ronsse Frederik (1), Pieters Jan (1)  
1 - Ghent University (Belgium)
- P1041 HYDROTHERMAL CARBONIZATION OF BIOMASS CONSTITUENTS**  
Sinag Ali (1), Donar Yusuf (1)  
1 - Ankara University (Turkey)
- P1042 BIOCHAR FROM MEDIUM PYROLYSIS TEMPERATURES FOR SMELTING PLANT APPLICATIONS**  
Surup Gerrit (1), Nielsen Henrik (1), Vehus Tore (1), Eidem Per (2)  
1 - University of Agder (Norway), 2 - Eramet Norway AS (Norway)
- P1043 EFFECT OF OXYGEN CONCENTRATIONS ON THE TORREFACTION OF BIOMASS AT TEMPERATURE BELOW 300OC**  
Worasuwannarak Nakorn (1)  
1 - King Mongkut's University of Technology Thonburi (Thailand)

**POSTERS SESSION 1: Monday 9 May & Tuesday 10 May****BIO-OIL**

- P1044 PRODUCTION OF BIO-OILS AND BIO-CHAR THROUGH MICROWAVE ASSISTED PYROLYSIS OF ARUNDO DONAX**  
Bartoli Mattia (1)  
1 - Department of Chemistry "Ugo Schiff", University of Florence (Italy)
- P1045 MILD UPGRADING OF FAST PYROLYSIS OIL TO LOW CORROSIVE AND STORAGE STABLE BIO-OIL**  
Brodin Fredrik (1), Celaya Javier (2), Toven Kai (1)  
1 - Paper and Fibre Research Institute (Norway), 2 - Norwegian University of Science and Technology - NTNU (NORWAY) (Norway)
- P1046 COMPARISON OF CATALYTIC ESTERIFICATION AND VACUUM-ASSISTED DEWATERING OF WOOD-BASED FAST PYROLYSIS OIL AND THEIR APPLICATION IN MARINE MULTI-COMPONENT FUELS**  
Brodin Fredrik (1), Celaya Javier (2), Toven Kai (1)  
1 - Paper and Fibre Research Institute (Norway), 2 - Norwegian University of Science and Technology - NTNU (NORWAY) (Norway)
- P1047 DEOXYGENATION OF USED COOKING OIL AND FATTY ACIDS VIA PYROLYSIS AND CATALYTIC VAPOURS UPGRADING FOR AVIATION BIOFUEL PRODUCTION**  
Buffi Marco (1), Rizzo Andrea Maria (1), Chiamonti David (2), Prussi Matteo (2)  
1 - Department of Industrial Engineering, University of Florence (Italy), 2 - Renewable Energy Consortium for R&D (Italy)
- P1048 AN INVESTIGATION INTO MULTICOMPONENT FUEL BLENDS USING PYROLYSIS OIL, MARINE FUEL AND ALTERNATIVE BLEND COMPONENTS**  
Chong Katie (1), Bridgwater Tony  
1 - Aston University (United Kingdom)
- P1049 ESTERIFICATION WITH HIGHER ALCOHOLS TO IMPROVE THE QUALITY OF FAST PYROLYSIS CONDENSATES**  
Conrad Stefan (1), Van Loo Tom (1), Schulzke Tim (1), Kaluza Stefan (1)  
1 - Fraunhofer Institute for Environmental, Safety, and Energy Technology UMSICHT (Germany)
- P1050 TOWARDS A BETTER CHARACTERIZATION OF BIOMASS PYROLYSIS BIO-OIL BY ESI-FTICRMS**  
Hertzog Jasmine (1), Carré V. (1), Le Brech Y. (2), Aubriet F. (1)  
1 - Lorraine University, LCP-A2MC, ICPM (France), 2 - Laboratoire Réactions et Génie des Procédés (France)
- P1051 PREDICTING PYROLYSIS OIL COMPOSITION, HHV AND CATALYTIC ACTIVITY USING CUMULATIVE ATOMIC RATIOS FROM PY-GC/MS DATA**  
Merckel Ryan (1), Heydenrych Mike (1)  
1 - Department of Chemical Engineering (South Africa)
- P1052 PREDICTION OF PROPERTIES AND ELEMENTAL COMPOSITION OF BIOMASS PYROLYSIS OILS BY NMR AND PARTIAL LEAST SQUARES ANALYSIS**  
Mullen Charles (1), Strahan Gary (1), Boateng Akwasi (1)  
1 - ARS-USDA Eastern Regional Research Center (United States)
- P1053 UTILIZATION OF PROCUTS FROM THERMO-CATALYTIC REFORMING IN INTERNAL COMBUSTION ENGINES**  
Neumann Johannes (1), Jäger Nils (1), Apfelbacher Andreas (1), Daschner Robert (1), Hornung Andreas (2) (3) (4) (1)  
1 - Fraunhofer-Institute for Environment, Safety, and Energy Technology UMSICHT (Germany), 2 - Università di Bologna (Italy), 3 - University of Birmingham (United Kingdom), 4 - Friedrich-Alexander University Erlangen-Nürnberg (Germany)
- P1054 APPLICATION AND VALORISATION OF THERMO-CATALYTIC REFORMING LIQUIDS**  
Neumann Johannes (1), Schmitt Nina (1), Apfelbacher Andreas (1), Daschner Robert (1), Hornung Andreas (2) (3) (4) (1)  
1 - Fraunhofer-Institute for Environment, Safety, and Energy Technology UMSICHT (Germany), 2 - Università di Bologna (Italy), 3 - University of Birmingham (United Kingdom), 4 - Friedrich-Alexander University Erlangen-Nürnberg (Germany)
- P1055 FAST PYROLYSIS BIO-OIL UPGRADING BY CATALYTIC HYDRODEOXYGENATION**  
Nowakowski Daniel Jozef (1), Santosa Miki, Frye John, Zacher Alan, Bridgwater Tony  
1 - European Bioenergy Research Institute, Aston University (United Kingdom)
- P1056 UPGRADING OF BIO-OIL QUALITY VIA HYDRODEOXYGENATIVE PROCESS WITH METAL CATALYST IN A CONTINUOUS FLOW REACTOR**  
Oh Shinyoung (1), Choi In-Gyu, Choi Joon Weon  
1 - Seoul National University (South Korea)
- P1057 STABILITY ASSESSMENT OF FAST PYROLYSIS BIO-OILS: EVALUATION OF MICRO-CARBON RESIDUE INCREASE BASED TEST**  
Pala Mehmet (1), Leijenhorst Evert (2), Yildiz Guray (1), Ronsse Frederik (1), Prins Wolter (1)  
1 - Department of Biosystems Engineering, Ghent University (Belgium), 2 - Biomass Technology Group BV (Netherlands)
- P1058 CHARACTERIZATION OF THE LIQUID PRODUCTS OBTAINED FROM THE FAST PYROLYSIS IN A PILOT BFB PLANT**  
Park Jo Yong (1), Kim Jae-Kon (1), Kim Sin (1), Cheon-Kyu Park (1), Ha Jong Han (1), Oh Chang Ho (2)  
1 - Korea Petroleum Quality & Distribution Authority(K-Petro) (South Korea), 2 - DAEKYUNG ESCO (South Korea)

**ORGANIC GEOCHEMISTRY**

- P1059 MEASUREMENT FOR FIRE DAMAGE LEVEL IN FOLIAR BIOMASS USING PYROLYSIS COMPOUND SPECIFIC HYDROGEN ISOTOPIC ANALYSIS ( $\delta^2\text{H}$  PY-CSIA)**  
Almendros Gonzalo, Jimenez-Morillo Nicasio T., Gonzalez-Pérez José A. (1), Sanz Jesus, Ruiz-Matute Ana I., De La Rosa José M., Gonzalez-Vila Francisco J.  
1 - IRNAS-CSIC (Spain)
- P1060 A NEW, QUICK, CLEAN AND EASY WAY TO MEASURE PAH AVAILABILITY IN CONTAMINATED SOILS USING THERMODESORPTION COUPLED WITH MOLECULAR ANALYSES**  
Biache Coralie (1), Lorgeoux Catherine (2), Saada Alain (3), Colombano Stéfan (3), Faure Pierre (1)  
1 - Laboratoire Interdisciplinaire des Environnements Continentaux (France), 2 - GeoRessources (France), 3 - Bureau de recherches géologiques et minières (France)
- P1061 THERMOCHEMOLYSIS FOR AN ALL IN ONE ANALYSIS OF THE MAIN BIOMOLECULAR FAMILIES IN SOILS AND SEDIMENTS. COMPARISON WITH CLASSICAL CHEMICAL DEGRADATIONS FOR THE ANALYSIS OF LIPIDS, LIGNIN AND CARBOHYDRATES IN A PEAT BOG.**  
Grasset Laurent (1), Younes Khaled (1)  
1 - INSTITUT DE CHIMIE DES MILIEUX ET MATERIAUX DE POITIERS (France)
- P1062 LABORATORY MATURATION OF SEVERAL CONIFER RESINS IN AN ATTEMPT TO TRANSFORM PLANT RESIN INTO AMBER**  
Hauteville Yann (1)  
1 - UMR 7359 Georessources (France)
- P1063 ASSESSING THE DIAGENETIC PATHWAYS OF RESIN ACIDS OF THE ABIETANE & PIMARANE CLASSES BY CONFINED PYROLYSIS**  
Hauteville Yann (1), Michels Raymond (2), Burklé-Vitzthum Valérie, Randi Aurélien, Lorgeoux Catherine (3), Catteloin Delphine  
1 - UMR 7359 Georessources (France), 2 - Lorraine University-GeoRessources-CNRS-CREGU (France), 3 - Géoresources (France)

POSTERS SESSION 1: Monday 9 May & Tuesday 10 May

- P1064 SIGNATURE OF PYROLYTIC ALKANES FOR THE ASSESSMENT OF SOIL CARBON SEQUESTRATION**  
Jimenez-Gonzalez Marco A. , Almendros Gonzalo , Alvarez Ana M., Carral Pilar, Gonzalez-Pérez José A. (1), Jimenez-Morillo Nicasio T., Gonzalez-Vila Francisco J.  
1 - IRNAS-CSIC (Spain)
- P1065 SOIL ORGANIC MATTER ALTERATIONS RESULTING FROM POST-FIRE RESTORATION ACTIONS**  
Jimenez-Morillo Nicasio T., Jordan Antonio, Zavala Lorena M., Granged Arturo J. P., Gonzalez-Vila Francisco J., Gonzalez-Pérez José A. (1)  
1 - IRNAS-CSIC (Spain)
- P1066 ACCURACY OF THE ROCK-EVAL METHOD ISO 5725-1-5725-6**  
Kashapov Roman (1), Goncharov Ivan (1)  
1 - JSC «TomskNIPneft» (Russia)
- P1067 PYROLYSIS PARAMETERS FEATURES OF THE RUSSIAN ARCTIC OUTCROPS**  
Kashapov Roman (1), Goncharov Ivan (1), Oblasov Nikolay (1), Samoilenko Vadim (1), Trushkov Pavel (1)  
1 - JSC «TomskNIPneft» (Russia)
- P1068 SUSPENDED PARTICULATE MATTER FROM MOSELLE RIVER (LORRAINE, FRANCE) : ORGANIC CHARACTERIZATION USING PY-GCMS**  
Le Meur Mathieu (1), Mansuy-Huault Laurence (1), Bauer Alan (2), Gley Renaud (1), Lorgeoux Catherine (3), Montargès-Pelletier Emmanuelle (4)  
1 - Laboratoire Interdisciplinaire des Environnements Continentaux - LIEC (Vandoeuvre-Les-Nancy, France) (France), 2 - Laboratoire Interdisciplinaire des Environnements Continentaux (France), 3 - Géoresources (France), 4 - Université de Lorraine, Laboratoire Interdisciplinaire des Environnements Continentaux (France)
- P1069 CONJUGATED KINETIC EFFECT OF ALKYL BENZENES AND H<sub>2</sub>S ON ALKANES CRACKING**  
Leguizamon Guerra Nestor Camilo (1), Burklé-Vitzthum Valérie , Michels Raymond (2), Lanuzel Frédéric, Bounaceur Roda (3), Marquaire Paul-Marie (3)  
1 - Laboratoire Réactions et Génie des Procédés - Georessources (France), 2 - University of Lorraine / CNRS / CREGU, GeoRessources Laboratory (France), 3 - Laboratoire Réactions et Génie des Procédés (France)
- P1070 THE CP+TV WOOD DATA BASE (I): CAPABILITIES & APPLICATION SCOPE**  
Mann Ulrich (1)  
1 - Forschungszentrum Jülich GmbH (Germany)
- P1071 THE CP+TV WOOD DATA BASE (II): SELECTED CASE HISTORIES**  
Mann Ulrich (1)  
1 - Forschungszentrum Jülich GmbH (Germany)
- P1072 PY-GC AS A USEFUL METHOD FOR GENERATED PRODUCT PREDICTION IN PALEOZOIC SHALE FORMATIONS IN POLAND**  
Matyasik Irena (1), Kierat Maria (1), Brzuszek Pawel (1)  
1 - 1 Oil and Gas Institute -National Research Institute (Poland)
- P1073 EVIDENCE FOR THE ROLE OF MINERALS ON THE GENERATION OF H<sub>2</sub>S AND CO<sub>2</sub> UPON AQUATHERMOLYSIS OF HEAVY OILS AND OIL SANDS IN CONFINED HYDROUS PYROLYSIS EXPERIMENTS: IMPLICATION FOR STEAM INJECTION PROCESSES FOR OIL RECOVERY**  
Michel Pauline (1)  
1 - IFP Energies Nouvelles (France)
- P1074 HONEY-LIKE SCENTED DEPOSITS IN A LAVA TUBE FROM LA PALMA ISLAND (SPAIN)**  
Miller Ana Zelia (1), De La Rosa José Maria (1), Pereira Manuel (2), Garcia-Sanchez Angela (1), Jurado Valme (1), Fernandez Octavio (3), Gonzalez-Pérez José (1), Saiz-Jimenez Cesareo (1)  
1 - Instituto de Recursos Naturales y Agrobiología de Sevilla (Spain), 2 - CERENA, Instituto Superior Tecnico, Universidade de Lisboa (Portugal), 3 - Grupo de Espeleología Tebexcorade-La Palma (Spain)
- P1075 PYROLYTIC PARAMETERS SECTION BAZHENOV FORMATION OF WESTERN SIBERIA (RUSSIA)**  
Trushkov Pavel (1), Goncharov Ivan (1), Samoilenko Vadim (1), Kashapov Roman (1)  
1 - JSC «TomskNIPneft» (Russia)
- WASTES**
- P1076 PYROLYSIS-CATALYSIS OF WASTE PLASTICS TO METHANE FOR HIGH VALUE AROMATIC PRODUCTS**  
Akubo Kaltume (1), Nahil Mohamad (1), T. Williams Paul (1)  
1 - School of Chemical & Process Engineering (United Kingdom)
- P1077 CRACKING OF BIOMASS TAR MODEL COMPOUNDS USING TYRE PYROLYSIS CHAR**  
Al-Rahbi Amal (1), Williams Paul (2)  
1 - University of Leeds (United Kingdom), 2 - University of Leeds (United Kingdom)
- P1078 CHEMICAL CHARACTERIZATION OF ORANGE JUICE WASTES FOR APPLICATION IN PYROLYSIS PROCESS**  
Alvarez Jon (1), Amutio Maider (1), Lopez Gartzten (1), Artetxe Maite (1), Barbarias Itsaso (1), Arregi Aitor (1), Santamaria Laura (1), Freire Fabio, Olazar Martin (1)  
1 - University of the Basque Country (Spain)
- P1079 MODELLING THE COMPOSITION OF THE GAS OBTAINED BY GLYCERIN GASIFICATION**  
Alvarez-Murillo Andres (1), Ledesma Cano Beatriz (1), Roman Suero Silvia (1), Sabio Rey Eduardo (1), Gonzalez Gonzalez Juan Félix (1)  
1 - Universidad de Extremadura - Uex (SPAIN) (Spain)
- P1080 STRUCTURE AND ACTIVITY OF ZSM-5 AND FLY ASH-DERIVED ZSM-5 CATALYS FOR SELECTIVE FORMATION OF AROMATICS FROM PYROLYTIC VAPORS OF RUBBER WASTES**  
Atong Duangduen (1), Vichaphund Supawan (2), Sricharoenchaikul Viboon (3), Aht-Ong Duangdao (4)  
1 - National Metal and Materials Technology Center (Thailand), 2 - National Metal and Materials Technology Center (Thailand), 3 - Department of Environmental Engineering, Faculty of Engineering, Chulalongkorn University (Thailand), 4 - Department of Materials Science, Faculty of Science, Chulalongkorn University (Thailand)
- P1081 LEATHER CHARACTERISATION FROM DIFFERENT ANIMAL SPECIES AND TANNING PROCESS BY TGA AND PY-GC/MS**  
Banon Elena (1), Marcilla Antonio (2), Garcia Angela (2), Leon Milagros (2)  
1 - Spanish Footwear Technology Institute (INESCOP) (Spain), 2 - Department of Chemical Engineering, University of Alicante (Spain)
- P1082 PYROLYSIS-CATALYTIC STEAM REFORMING OF POLYSTYRENE IN A TWO-STAGE REACTION SYSTEM**  
Barbarias Itsaso (1), Lopez Gartzten (1), Amutio Maider (1), Artetxe Maite (1), Alvarez Jon (1), Arregi Aitor (1), Olazar Martin (1)  
1 - University of the Basque Country (Spain)

POSTERS SESSION 1: Monday 9 May & Tuesday 10 May

<b>P1083</b>	<b>STEPWISE CITRUS WASTE PYROLYSIS. CARBON FOOTPRINT &amp; LCA.</b> Bustos-Martinez Diana (1) 1 - Universidad de Nuevo Leon (Mexico)
<b>P1084</b>	<b>INFLUENCE OF CLASSIC AND INNOVATIVE DRYING PROCESSES ON THE MOLECULAR CHARACTERISTICS OF SEWAGE SLUDGE</b> Collard Marie (1), Laduranty Joelle (1), Allavena Audrey (1), Karpel Vel Leitner Nathalie (1), Teychene Benoit (1), Lemee Laurent (1) 1 - INSTITUT DE CHIMIE DES MILIEUX ET MATERIAUX DE POITIERS (France)
<b>P1085</b>	<b>KINETIC STUDY AND THERMAL DECOMPOSITION BEHAVIOR OF VISCOELASTIC MEMORY FOAM</b> Conesa Juan A. (1), Font Rafael, Garrido Maria, Soler Aurora 1 - University of Alicante (Spain)
<b>P1086</b>	<b>DECOMPOSITION OF MATERIALS COMBINING BIOMASS AND WASTE FROM ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)</b> Conesa Juan A. (1), Soler Aurora, Font Rafael, Garrido Maria 1 - University of Alicante (Spain)
<b>P1087</b>	<b>REVEALING THE STRUCTURE AND MECHANISMS INVOLVED IN THE PRODUCTION OF SEWAGE SLUDGE CHARS</b> De La Rosa José M (1), Paneque Marina (1), Jimenez-Morillo Nicasio (1), Gonzalez-Pérez José (1), Kern Jürgen (2), Aragon Carlos (3), Knicker Heike (1) 1 - IRNAS-CSIC (Spain), 2 - Leibniz-Institut für Agrartechnik Potsdam-Bornim e.V. (Germany), 3 - CENTA (Spain)
<b>P1088</b>	<b>TRANSFORMATION BEHAVIOR OF ARSENIC DURING THERMAL TREATMENT OF P.VITTATA, A ARSENIC HYPERACCUMULATOR</b> Duan Lunbo (1), Xiaole Li (1), Ying Jiang (2), Philip Longhurst (2), Mei Lei (3) 1 - Southeast University (China), 2 - Cranfield University (United Kingdom), 3 - Chinese Academy of Sciences (China)
<b>P1089</b>	<b>THERMAL TREATMENT OF WOOD WASTE FOR PARTICLEBOARD PRODUCTION</b> Girods Pierre (1), Rogaume Yann (1), Lemonon Jérôme (1), Colin Baptiste (1) 1 - Laboratoire d'Etude et de Recherche sur le Matériau Bois (France)
<b>P1090</b>	<b>EFFECT OF CARBON NANOTUBES ON THERMAL AND CATALYTIC PYROLYSIS OF POLYOLEFINS</b> Gutierrez Omar (1), Palza H. 1 - Facultad de Ciencias Exactas y Aplicadas, Instituto Tecnológico Metropolitano (Colombia)
<b>P1091</b>	<b>CHARACTERIZATION OF PYROLYSIS REACTION OF WASTE PAPER LAMINATED PHENOLIC PRINTED CIRCUIT BOARD</b> Kim Young-Min (1) (2), Han Tae Uk (2), Hwang Byeonga (2), Lee Yunhee (2), Park Young-Kwon (3), Kim Seungdo (2) 1 - Frontier Laboratories Ltd. (Japan), 2 - Department of Environmental Sciences and Biotechnology, Hallym University (South Korea), 3 - School of Environmental engineering, University of Seoul (South Korea)
<b>P1092</b>	<b>AIR GASIFICATION STUDY IN FLUIDIZED BED REACTOR: COMPARISON OF WOOD AND WASTE FROM CITY OF ABOMEY-CALAVI</b> Kple Melhyas (1) (2), Girods Pierre (2), Anjorin Malahimi (1), Fagla Benoît (1), Debal Matthieu (2), Colin Baptiste (2), Rogaume Yann (2) 1 - Laboratoire d'Energétique et de Mécanique Appliquée (Benin), 2 - Laboratoire d'Etude et de Recherche sur le Matériau Bois (France)
<b>P1093</b>	<b>CO-PYROLYSIS BEHAVIORS OF BEECH WOOD AND POLYETHYLENE MIXTURES</b> Kumagai Shogo (1), Fujita Kohei (1), Kameda Tomohito (1), Yoshioka Toshiaki (1) 1 - Graduate school of Environmental Studies, Tohoku University (Japan)
<b>P1094</b>	<b>PRODUCING HYDROGEN AND HIGH VALUE CARBON NANOTUBES FROM PLASTICS WASTE USING NI- AND FE-BASED CATALYSTS</b> Liu Xiaotong (1), Zhang Yeshui (2), Nahil Mohamad (3), Williams Paul (2), Wu Chunfei (1) 1 - University of Hull (United Kingdom), 2 - School of chemical and process engineering (United Kingdom), 3 - MOHAMAD NAHIL (United Kingdom)
<b>P1095</b>	<b>HYDROTHERMAL LIQUEFACTION OF ANIMAL BY-PRODUCTS: DIFFERENT EXTRACTION PROCESSES</b> Marcilla Antonio (1), Garcia Angela (1), Leon Milagros (1), Catala Lucia (1), Martinez Isabel (1), Navarro Rosa (1) 1 - Department of Chemical Engineering, University of Alicante (Spain)
<b>P1096</b>	<b>EFFECT OF THE PROCESS TEMPERATURE ON THE PRODUCTS GENERATED BY HYDROTHERMAL LIQUEFACTION OF ANIMAL BY-PRODUCTS</b> Marcilla Antonio (1), Garcia Angela (1), Leon Milagros (1), Catala Lucia (1), Martinez Isabel (1), Navarro Rosa (1) 1 - Department of Chemical Engineering, University of Alicante (Spain)
<b>P1097</b>	<b>NUMERICAL MODELLING OF THE PYROLYTIC DEGRADATION OF PLASTIC COMPOUNDS</b> Masmoudi Amal (1), Baccar Mounir (1), Naifar Fahmi (2) 1 - Computational Fluid Dynamic and Transfer Phenomena, National Engineering School of Sfax-Tunisia (Tunisia), 2 - National Engineering School of Sfax-Tunisia (Tunisia)
<b>P1098</b>	<b>EPOXY RESIN FAST PYROLYSIS STUDIED IN MICRO-FLUIDISED BED</b> Masson Amandine (1), Lopez Rojas Luis, Mercy Michel (1), Dufour Anthony (1), Hu Guo-Hua (1), Mauviel Guillain (1), Burkle-Vitzthum Valerie (1) 1 - Laboratoire Réactions et Génie des Procédés (France)
<b>P1099</b>	<b>ENHANCING SYNTHESIS GAS QUALITY FROM DRY REFORMING OF WASTE PLASTICS</b> Md Saad Juniza (1), Nahil Mohamad Anas (1), T. Williams Paul (1) 1 - School of Chemical & Process Engineering (United Kingdom)
<b>P1100</b>	<b>EFFECT OF HIGH HEATING RATES ON THE PRODUCTION OF LIMONENE BY PYROLYSIS OF WASTE TYRES</b> Mkhize Ntandoyenkosi (1), Van Der Gryp Percy (1), Danon Bart (1), Gorgens Johann (1) 1 - Department of Process Engineering, University of Stellenbosch (South Africa)
<b>P1101</b>	<b>FUELS BY RECYCLING OF WASTE PLASTICS FROM END OF LIFE VEHICLES</b> Norbert Miskolczi (1), Zsuzsanna Czégény (2), Janos Bozi (2), Janos Soja (1) 1 - MOL Department of Hydrocarbon and Coal Processing, University of Pannonia (Hungary), 2 - Institute of Materials and Environmental Chemistry, Research Centre for Natural Sciences, Hungarian Academy of Sciences (Hungary)
<b>P1102</b>	<b>THERMO-CATALYTIC REFORMING OF MUNICIPAL SOLID WASTE</b> Ouadi Miloud (1) (2), Conti Roberto (3) (2), Jäger Nils (1) (2), Gasson James (1) (2), Hornung Andreas (4) (3) (1) (2) 1 - Birmingham University School of Chemical Engineering (United Kingdom), 2 - Fraunhofer UMSICHT (Germany), 3 - Università di Bologna [Bologna] (Italy), 4 - Friedrich-Alexander University Erlangen-Nürnberg (Germany)
<b>P1103</b>	<b>ONLINE STUDY ON THE INFLUENCE OF THERMAL TREATMENT OF HUSY ON THE CATALYTIC PYROLYSIS OF POLYPROPYLENE WITH PHOTOIONIZATION MASS SPECTROMETRY</b> Pan Yang (1) 1 - University of Science and Technology of China (China)
<b>P1104</b>	<b>RECYCLED POLYMERS FROM WEEE IN FOOD CONTACT ARTICLES ON THE EUROPEAN MARKET: COMPLETING THE STORY BY PYROLYSIS GC-MS</b> Puype Franky (1) 1 - Institute for Testing and Certification (Czech Republic)

POSTERS SESSION 1: Monday 9 May & Tuesday 10 May

<b>P1105</b>	<b>CATALYTIC PYROLYSIS OF WASTE PLASTICS USING STAGED CATALYST FOR PRODUCTION OF GASOLINE RANGE HYDROCARBONS</b> Ratnasari Devy (1), Nahil M.a., Williams P.t. 1 - Energy Research Institute (United Kingdom)
<b>P1106</b>	<b>CATALYTIC PYROLYSIS OF REFUSED PLASTIC FUEL OVER ZEOLITES</b> Ro Donghoon, Hong Yeojin, Lee Yejin, Lee Heejin, Park Young-Kwon (1) 1 - School of Environmental engineering, University of Seoul (South Korea)
<b>P1107</b>	<b>INFLUENCE OF DEMINERALIZATION ON PYROLYSIS OF SUGARCANE BAGASSE AND TRASH</b> Rodriguez-Machin Lizet (1), Prins W., Ronsse F. 1 - Ghent University (BELGIUM) (Belgium)
<b>P1108</b>	<b>USE OF SEWAGE SLUDGE AND MANURE ASH FOR H<sub>2</sub>S REMOVAL FROM THE PYROLYSIS GAS</b> Ruiz-Gomez Nadia (1), Ceamanos Jesus (1), Calavia Alejandro (1), Gea Gloria (1), Fonts Isabel (2) (1), Atienza-Martinez Maria (1) 1 - Aragon Institute of Engineering Research (I3A) [Zaragoza] (Spain), 2 - Centro Universitario de la Defensa (CUD) [Zaragoza] (Spain)
<b>P1109</b>	<b>BTEX FRACTIONS FROM THE CATALYTIC PYROLYSIS OF WASTE POLYMERS</b> Sajdak Marcin (1), Nowakowski Daniel (2), Riasat Selma (3) 1 - Institute for Chemical Processing of Coal (Poland), 2 - European Bioenergy Research Institute (EBRI), Aston University (United Kingdom), 3 - School of Engineering and Applied Science, Aston University (United Kingdom)
<b>P1110</b>	<b>IMPLEMENTATION OF A NEW PYROLYSIS REACTOR IN LINZ</b> Schwarzinger Clemens (1), Warchol Gerd 1 - Institute for Chemical Technology of Organic Materials, Johannes Kepler University (Austria)
<b>P1111</b>	<b>VALORISATION OF LOW QUALITY BIOFUELS BY HYDROTHERMAL CARBONISATION</b> Smith Aidan (1), Ross Andrew (1) 1 - University of Leeds (United Kingdom)
<b>P1112</b>	<b>CATALYTIC CRAKING OF NITROGEN CONTAINING PLASTICS USING SPENT FCC CATALYST</b> Tani Haruki (1), Hirasawa Masahiro (2), Gytoku Koji (3), Murakami Yayoi (3), Fujimoto Kaoru (3), Asami Kenji (3), Noda Shuji (4) 1 - Nagoya University (Japan), 2 - Nagoya University (Japan), 3 - The University of Kitakyushu (Japan), 4 - Environment Energy Co. Ltd. (Japan)
<b>P1113</b>	<b>INDUSTRIAL WASTE DERIVED CAO-BASED CATALYSTS FOR UPGRADING OF VOLATILES DURING JATROPHA RESIDUES PYROLYSIS</b> Vichaphund Supawan (1), Atong Duangduen (1), Sricharoenchaikul Viboon (2) 1 - National Metal and Materials Technology Center (Thailand), 2 - Department of Environmental Engineering, Faculty of Engineering, Chulalongkorn University (Thailand)
<b>P1114</b>	<b>CONVERSION OF EARTHWORM MANURE INTO ENVIRONMENTALLY-FRIENDLY ADSORBENTS THROUGH PYROLYSIS</b> Wang Zhanghong (1), Shen Dekui (1), Xiao Rui (1) 1 - Southeast University (China)
<b>P1115</b>	<b>SLOW PYROLYSIS OF ORGANIC FRACTION OF MUNICIPAL SOLID WASTE AND USING THE AQUEOUS PHASE PRODUCT IN ANAEROBIC DIGESTION</b> Yang Yang (1), Venetsaneas Nikolaos (2), Bridgwater Tony (1), Banks Charles (2), Heaven Sonia (2) 1 - European Bioenergy Research Institute (United Kingdom), 2 - Faculty of Engineering and the Environment (United Kingdom)
<b>P1116</b>	<b>CARBON NANOTUBES AS VALUE ADDED PRODUCTS ALONG WITH HYDROGEN PRODUCTION BY PYROLYSIS CATALYTIC-GASIFICATION OF WASTE TIRES</b> Zhang Yeshui (1), Williams Paul (1) 1 - School of chemical and process engineering (United Kingdom)