

POSTER SESSION 2: Wednesday 11 May & Thursday 12 May

ANALYTICAL PYROLYSIS

- P2001 CHARACTERIZATION OF ACRYLONITRILE-1,3-BUTADIENE-STYRENE/ POLYAMIDE 6 (ABS/PA6) BLENDS BY PYROLYSIS-GAS CHROMATOGRAPHY (PY-GC) WITH DIFFERENT DETECTOR SYSTEMS**
Alarcon Salinas Sebastian (1), Kusch Peter (1), Gerd Knupp (1), Johannes Steinhaus (1) and Dietrich Sülthaus (2)
1 - Hochschule Bonn-Rhein-Sieg - University of Applied Sciences, 53359 Rheinbach, Germany
2 - AKRO-PLASTIC GmbH, Im Stiefelfeld 1, 56651 Niederzissen, Germany
- P2002 PYROLYSIS STUDY OF WOOD DEGRADATION CAUSED BY INORGANIC COMPOUNDS**
Antuskova Vaclava (1), Tamburini Diego (2), Lucejko Jeannette (3) (2), Modugno Francesca (2), Kucěrova Irena (1)
1 - Department of Chemical Technology of Monument Conservation, University of Chemistry and Technology Prague (Czech Republic), 2 - Department of Chemistry and Industrial Chemistry, University of Pisa (Italy), 3 - Institute for the Conservation and Valorization of Cultural Heritage, National Research Council (Italy)
- P2003 MICROSTRUCTURAL ANALYSIS OF PURE AND LI DOPED CD FERRITES (CDLIXFE(2-X)O4-Y) NANOFABRICATED BY CO-PRECIPITATION METHOD**
Anu (1), Gupta Munish (2) (3), Mudsainiyan R.k. (4), Randhawa B.s. (5)
1 - Department of Chemistry, Baring Union Christian College, Batala (India), 2 - Department of Chemistry, DAV College, Amritsar (India), 3 - Department of Chemistry, Centre for Advanced studies-II, Guru Nanak Dev University, Amritsar (India), 4 - Department of Chemistry, Guru Nanak Dev University (India), 5 - Department of Chemistry, Guru Nanak Dev University, Amritsar (India)
- P2004 PY/GC-MS TO EVALUATE THE ACTIVITY OF A THERMOSTABLE LACCASE PRODUCED BY STREPTOMYCES IPOMOEAE IN THE DEGRADATION OF LIGNIN FROM WHEAT STRAW**
Arias M. Enriqueta, Blanquez Alba, Hernandez Manuel, Rodriguez Juana, Gonzalez-Pérez José A. <jag@irnase.csic.es> (1), Jiménez-Morillo Nicasio T., Gonzalez-Vila Francisco J.
1 - IRNAS-CSIC (Spain)
- P2005 APPLICATION OF ANALYTICAL PYROLYSIS FOR SEARCH OF MECHANISMS OF BIOMASS COMPONENTS TRANSFORMATION INDUCED BY MICROWAVE TORREFACTION**
Arshanitsa Alexandr (1), Dizhbite Tatiana, Bikovens Oskars, Jurkjane Vilhelmine, Lauberts Maris, Telysheva Galina
1 - Latvian State Institute of Wood Chemistry (Latvia)
- P2006 ACID TREATMENT OF PHRAGMITES FOR SUGAR AND SUGAR DERIVATIVES PRODUCTION**
Bartoli Mattia (1)
1 - Department of Chemistry "Ugo Schiff", University of Florence (Italy)
- P2007 MULTI-ANALYTICAL APPROACH TO CHARACTERISE MODERN OIL PAINT FORMULATIONS**
Bonaduce Ilaria (1), Colombini Maria Perla (2) (3), Degano Ilaria, Duce Celia (4), La Nasa Jacopo (4), Modugno Francesca (2), Tine Maria Rosaria (4)
1 - Dipartimento di Chimica e Chimica Industriale Università di Pisa (Italy), 2 - Department of Chemistry and Industrial Chemistry, University of Pisa (Italy), 3 - Institute for the Conservation and Valorization of Cultural Heritage, National Research Council (Italy), 4 - Department of Chemistry and Industrial Chemistry, University of Pisa (Italy)
- P2008 THE DISCOVERING OF NEW MARKERS FOR ARCHAEOMETRIC PURPOSES: EGA-MS, PY-GC/MS AND GC/MS INVESTIGATION ON WOOD AND BARK PITCH REPLICA**
Bulfaro Maria, Ribechini Erika (1), Colombini Maria Perla
1 - Dipartimento di chimica e chimica industriale, Università di Pisa (Italy)
- P2009 AN EXPERIMENTAL INVESTIGATION INTO THE ABSENCE OF COMBUSTION IN AN ELECTRICALLY HEATED TOBACCO SYSTEM**
Cozzani Valerio (1), Mcgrath Thomas (2), Smith Maurice (2), Schaller Jean Pierre (2), Zuber Gerard (2)
1 - University of Bologna [Bologna] (Italy), 2 - Philip Morris International Research and Development (Switzerland)
- P2010 CHARACTERIZATION OF TRADITIONAL EAST ASIAN PAPERS USING PY-GC/MS AND PY-GCXGC/MS**
Daheur Ghizlene > (1), Han Bin (1), Sablier Michel (1), Vilmont Léon-Bavi (1)
1 - Centre de recherche sur la Conservation USR 3224 du CNRS, Muséum National d'Histoire Naturelle (France)
- P2011 THE MECHANISM OF BIOMASS PYROLYSIS STUDIED BY VARIOUS ANALYTICAL METHODS**
Dufour Anthony (1), Le Brech Yann (1)
1 - CNRS Nancy (France)
- P2012 ON-LINE ANALYSIS OF BIOMASS PYROLYSIS TAR BY PHOTOIONIZATION MASS SPECTROMETRY**
Dufour Anthony (1), Liangyuan Jia (1), Le Brech Yann (1), Mauviel Guillain (1), Qi Fei (2), Bente Von Frowein Matthias (3)
1 - CNRS Nancy (France), 2 - Shanghai Jiao Tong University (China), 3 - Photonion (Germany)
- P2013 CHARACTERIZATION OF CHEMICAL COMPOSITION VARIATIONS IN DIFFERENT SPRUCE WOOD ZONES BY PY-GCMS**
Dumarcay Stephane (1), Gérardin Philippe (2)
1 - Laboratoire d'Etudes et de Recherche sur le Matériau Bois (France), 2 - Laboratoire d'Etudes et de Recherche sur le Matériau Bois (France)
- P2014 SPME-GC-MS TO TRACE THE DYNAMICS OF COMPOUNDS EVOLVED DURING STEPWISE PYROLYSIS**
Ghidotti Michele (1)
1 - Università di Bologna - Centro Interdipartimentale di Ricerca Industriale Energia e Ambiente - Unità operativa Biomasse (Italy)
- P2015 PYROLYSIS-COMPOUND SPECIFIC ISOTOPE ANALYSIS (PY-CSIA). TECHNIQUE AND APPLICATIONS**
Gonzalez-Perez José A. (1), Jimenez-Morillo Nicasio T., De La Rosa José M., Knicker Heike, Gonzalez-Vila Francisco J.
1 - IRNAS-CSIC (Spain)
- P2016 INVESTIGATIONS ON PHYSICO-CHEMICAL PARAMETERS OF PURE AND SM3+ DOPED CD FERRITES (CD1-XSMXFE2O4+0.5X ; X = 0.0-0.3) SYNTHESIZED BY SOLUTION COMBUSTION METHOD**
Gupta Munish (1) (2), . Anu (3), Mudsainiyan R.k. (4), Randhawa B.s. (4)
1 - DAV COLLEGE, AMRITSAR (India), 2 - Guru Nanak Dev University (India), 3 - BARING UNION CHRISTIAN COLLEGE (India), 4 - GURU NANAK DEV UNIVERSITY (India)
- P2017 NEW KINETIC APPROACH ON PYROLYSIS POLY-(METHYL METHACRYLATE) USING EGA-MS**
Han Tae Uk (1), Kim Young-Min (2) (1), Hwang Byeonga (1), Park Young-Kwon (3), Kim Seungdo (1)
1 - Department of Environmental Sciences and Biotechnology, Hallym University (South Korea), 2 - Frontier Laboratories Ltd. (Japan), 3 - School of Environmental engineering, University of Seoul (South Korea)
- P2018 DEVELOPMENT OF IDENTIFICATION METHODS OF DRYING OILS COMPOSED OF DIFFERENT MAIN COMPONENTS BY PY-GC/MS**
Hayato Horii (1), Takayuki Honda (2)
1 - Department of Applied Chemistry, Meiji Graduated (Japan), 2 - Department of Applied Chemistry, Meiji University (Japan)

POSTER SESSION 2: Wednesday 11 May & Thursday 12 May

P2019	PY-GC/MS ANALYSIS OF THE COLORING MATERIALS OF A YOMEIMON GATE OF THE NIKKO TOSHOGU SHRINE Honda Takayuki (1), Nobuhiko Kitano (2), Noritake Sato (3) 1 - Meiji University Science and Technology (Japan), 2 - Independent Administrative Institution National Research Institute for Cultural Properties (Japan), 3 - Association for the Preservation of the Nikko World Heritage Site Shrines and Temples (Japan)
P2020	SCIENTIFIC ANALYSIS OF IMITATION LACQUERWARE USING "PAPIER-MACHE" Idei Soichiro (1) 1 - Graduate School of Science and Technology, Meiji University (Japan)
P2021	INFLUENCE OF THE TEMPERATURE RISE TIME ON PYROGRAMS IN ANALYTICAL PYROLYSIS Jonsson Helena (1), Lars-Ove Jonsson (1) 1 - Pyrol AB (Sweden)
P2022	HIGH PRESSURE TANDEM CATALYTIC REACTOR-GC/MS SYSTEM AND ITS APPLICATIONS Kim Young-Min (1) (2), Michael Soll (3), Ito Koichi (1), Teramae Norio (1), Watanabe Atsushi (1), Hosaka Akihiko (1), Park Young-Kwon (4), Kim Seungdo (2) 1 - Frontier Laboratories Ltd. (Japan), 2 - Department of Environmental Sciences and Biotechnology, Hallym University (South Korea), 3 - Frontier Laboratories Ltd. (Germany), 4 - School of Environmental engineering, University of Seoul (South Korea)
P2023	CHROMIDENT - TOWARDS A COMPREHENSIVE UTILIZATION OF PYROLYTIC FINGERPRINTS FOR SAMPLE COMPARISON AND QUALITY CONTROL Klingberg Andreas (1), Wenig Philip (1), Binder Janos (1), Azeez Akeem (2), Fladung Matthias (3), Meier Dietrich (4) 1 - Lablicate UG (Germany), 2 - Ekiti State University, Department of Chemistry (Nigeria), 3 - Thünen Institute of Forest Genetics (Germany), 4 - Thünen Institute of Wood Research (Germany)
P2024	STUDY ON CHINESE HISTORICAL LACQUER CULTURE AND TECHNOLOGY - ANALYSIS OF CHINESE QIN-HAN DYNASTY LACQUERWARE- Lu Rong (1), Yamabuki Midori (1), Ando Daisuke (1), Miyakoshi Tetsuo (1) 1 - meiji university (Japan)
P2025	THE DRAMATIC EFFECT OF THE ALUM TREATMENT ON THE OSEBERG WOOD COLLECTION: A PY-GC/MS AND ICP-OES STUDY Lucejko Jeannette (1) (2), Tamburini Diego (2), Modugno Francesca > (2), Colombini Maria Perla (1) (2), Gambineri Francesca (3), Kutzke Hartmut (4) 1 - Institute for the Conservation and Valorization of Cultural Heritage, National Research Council (Italy), 2 - Department of Chemistry and Industrial Chemistry, University of Pisa (Italy), 3 - Laboratori ARCHA Srl (Italy), 4 - Museum of Cultural History, University of Oslo (Norway)
P2026	CHEMICAL CHANGES OF THERMO-HYDRO TREATED BIRCH VENEERS Meija-Feldmane Anete (1) (2), Dobele Galina (2), Grinins Juris (2), Andersone Ingeborga (2), Cirule Dace (1) (2), Jurkjane Vilhelmine (2), Andersons Bruno (2) 1 - Latvia University of Agriculture (Latvia), 2 - Latvian State Institute of Wood Chemistry (Latvia)
P2027	CHARACTERIZATION AND AGEING STUDIES OF AQUAZOL RETOUCHING PAINTS USING TECHNIQUES BASED ON PYROLYSIS Modugno Francesca (1), La Nasa Jacopo (1), Orsini Sibilla (1), Duce Celia (1), Spepi Alessio (1), Tine Maria Rosaria (1), Ubaldi Vanessa (2), De Luca Daphne (2) 1 - Department of Chemistry and Industrial Chemistry, University of Pisa (Italy), 2 - Department of Basic Science and Foundations, University of Urbino (Italy)
P2028	THE COMBINATION OF PYROLYSIS-BASED TECHNIQUES TO EVALUATE THE STATE OF PRESERVATION OF ARCHAEOLOGICAL WOOD IN THE PRESENCE OF CONSOLIDATING AGENTS Modugno Francesca (1), Tamburini Diego (1), Lucejko Jeannette (2) (1), Colombini Maria Perla (2) (1) 1 - Department of Chemistry and Industrial Chemistry, University of Pisa (Italy), 2 - Institute for the Conservation and Valorization of Cultural Heritage, National Research Council (Italy)
P2029	END GROUP ANALYSIS OF STYRENE-BUTYL ACRYLATE COPOLYMERS PREPARED USING BENZOYLPEROXIDE INITIATOR BY STEPWISE CHEMOLYSIS-PYROLYSIS GAS CHROMATOGRAPHY Ohtani Hajime (1), Takeuchi Kaoru (1), Kaneko Asako (2), Kiura Masaaki (2), Momose Hikaru (2) 1 - Nagoya Institute of Technology (Japan), 2 - Mitsubishi Rayon Co., Ltd. (Japan)
P2030	CHEMICAL ANALYSIS OF UV IRRADIATED B-72 BY PY-GC/MS AND EGA-MS Okamoto Shun (1), Takayuki Honda (2) 1 - Graduate school of Science and Technology, Meiji univ. (Japan), 2 - School of Science and Technology, Meiji univ. (Japan)
P2031	QUANTIFICATION OF POLYVINYLPIRROLIDONE (PVP) AND POLYVINYLALCOHOL (PVOH) IN POLYAMIDE FILMS BY PYROLYSIS GC-MS Puype Franky (1) 1 - Institute for Testing and Certification (Czech Republic)
P2032	FEASIBILITY OF PYROLYSIS GC-MS FOR THE CHARACTERIZATION OF CHEMICAL MODIFIED POLYMER SURFACES Puype Franky (1) 1 - Institute for Testing and Certification (Czech Republic)
P2033	ANALYTICAL PYROLYSIS OF PRETREATED HEMP SHIVES LIGNOCELLULOSE TO LEVOGLUCOSAN AND LEVOGLUCOSENONE Rizhikovs Janis (1), Dobele Galina (1), Zhurinsh Aivars (1), Paze Aigars (1), Meile Kristine (1), Puke Maris (1), Brazdausks Prans (1) 1 - Latvian State Institute of Wood Chemistry (Latvia)
P2034	CHEMICAL CHARACTERISATION OF TARS FROM THERMAL CONVERSION OF BIOMASS BY 1D GAS CHROMATOGRAPHY COMBINED WITH Silylation Sajdak Marcin (1), Chrubasik Maciej (1), Muzyka Roksana (1) 1 - Institute for Chemical Processing of Coal (Poland)
P2035	ANALYTICAL PYROLYSIS AS A METHOD TO QUANTITATIVE ANALYSIS OF FOSSIL FUELS CONTAMINANTS IN BIOCHAR Sajdak Marcin (1), Nowakowski Daniel (2), Bridgwater Anthony (2) 1 - Institute for Chemical Processing of Coal (Poland), 2 - European Bioenergy Research Institute, Aston University (United Kingdom)
P2036	THERMALLY ASSISTED CHEMOLYSIS USING HYDROGEN DONOR REAGENT FOR STRUCTURAL ANALYSIS OF INTRACTABLE CROSS-LINKING POLYMERS Sakai Shun (1), Kano Ryota (1), Ohtani Hazime (1) 1 - Nagoya Institute of Technology (Japan)

POSTER SESSION 2: Wednesday 11 May & Thursday 12 May

P2037	DETERMINATION OF FORMALDEHYDE AS A PYROLYSIS PRODUCT USING ANALYTICAL PYROLYSIS DERIVATIZATION-GC/MS Sam Karen (1), Dowling Jennifer (1) 1 - CDS Analytical (United States)
P2038	ANALYTICAL PYROLYSIS IN THE INVESTIGATION OF TURQUOISE IMITATIONS AND TREATMENTS Schwarzinger Clemens (1), Schwarzinger Bettina 1 - Institute for Chemical Technology of Organic Materials, Johannes Kepler University (Austria)
P2039	ANALYSIS OF THE AROMATIC COMPOSITION OF INTERNAL COMMON RAIL INJECTOR DEPOSITS VIA THERMAL DEGRADATION Streibel Thorsten (1) (2), Lau Kornelia (2), Klingbeil Sophie (2), Junk Rene (2), Schümann Ulrike (2), Zimmermann Ralf (1) (2) 1 - Helmholtz Zentrum München (Germany), 2 - University of Rostock (Germany)
P2040	SCIENTIFIC ANALYSIS OF JĀCĒMON RELIC EXCAVATED THE MINAMIKĀCĒNUMA RUINS Takahashi Shinichi (1), Honda Takayuki (2) 1 - Graduate school of Science and Technology, Meiji Univ. (Japan), 2 - Meiji University Graduate School of Science and Technology (Japan)
P2041	ANALYSIS AND IDENTIFICATION OF RYUKYU LACQUERWARES DECORATED WITH WISTERIA VINE BY PYROLYSIS-GAS CHROMATOGRAPHY/MASS SPECTROMETRY AND 87SR/86SR ISOTOPE RATIO MEASUREMENTS Tetsuo Miyakoshi (1) 1 - Meiji University (Japan)
P2042	VERIFICATION OF THE ABSENCE OF COMBUSTION IN AN ELECTRICALLY HEATED TOBACCO SYSTEM Yan Hui (1), Fujita Osamu (2) 1 - Graduate School of Engineering, Hokkaido University, N13W8, Kita-ku, Sapporo, 060-8628, Japan (Japan), 2 - Faculty of Engineering, Hokkaido University, N13W8, Kita-ku, Sapporo, 060-8628, Japan (Japan)
P2043	ODOR ANALYSIS OF PEROXIDE DEGRADED POLYPROPYLENE BY PYROLYSIS GAS CHROMATOGRAPHY-MASS SPECTROMETRY Yang Rui (1), Wang Zhaocheng (1), Liu Ying (1), Wang Yanfang (2), Chen Shangtao (2), Zhang Fengbo (2) 1 - Department of Chemical Engineering, Tsinghua University (China), 2 - Synthetic Resin Laboratory, PetroChina Petrochemical Research Institute (China)
BIOMASS / CATALYSIS	
P2044	EFFECT OF ALKALI AND ACID PRE-TREATMENT ON GRASS PYROLYSIS Barbiero Chiara (1) 1 - Institute for Chemicals and Fuels from Alternative Resources (Canada)
P2045	A DETAILED QUALI-QUANTITATIVE ANALYSIS OF PRODUCTS FROM PYROLYSIS-ZEOLITE CRACKING OF THE MICROALGAE SPIRULINA Daniele Fabbri (1) (2), Torri Cristian (1), Bianchini Emma (1), Pistocchi Rossella (1), Guerrini Franca (1), Rombola Alessandro (1), Massoli Patrizio (3) 1 - University of Bologna (Italy), 2 - University of Bologna (Italy), 3 - Istituto Motori CNR (Italy)
P2046	CATALYTIC PYROLYSIS OF WASTE LIGNIN FROM PULPING PROCESS FOR BIO-OIL PRODUCTION Hawangchu Yotwadee (1), Atong Duangduen (2), Sricharoenchaikul Viboon (3) (4) 1 - International program on hazardous substance and environmental management Graduate School, Chulalongkorn University (Thailand), 2 - National Metal and Materials Technology Center, National Science and Technology Development Agency (Thailand), 3 - Energy Research Institute, Chulalongkorn University, Bangkok, Thailand (Thailand), 4 - Department of Environmental Engineering, Faculty of Engineering (Thailand)
P2047	CATALYTIC PYROLYSIS OF BIOMASS USING AN INTEGRATED CONCEPT Heeres H.j. (1) 1 - University of Groningen (Netherlands)
P2048	STUDYING CATALYZED BIOMASS PYROLYSIS AND CATALYST DEACTIVATION AND REGENERATION BY USING A TANDEM MICRO REACTOR GC-MS John Mommers (1), Mengerink Ynze (1), Kramer Jurjen (1), Oevering Henk (1) 1 - DSM (Netherlands)
P2049	CATALYTIC PYROLYSIS OF EMPTY FRUIT BUNCH IN A BENCH-SCALE FIXED BED REACTOR Kim Beom-Sik (1), Kim Young-Min (1), Jae Jungho (2), Suh Dong Jin (2), Yoo Kyung-Seun (3), Kim Seungdo (4), Jeon Jong-Ki (5), Jung Sang-Chul (6), Park Young-Kwon (1) 1 - University of Seoul (South Korea), 2 - Korea Institute of Science and Technology (South Korea), 3 - Kwangwoon University (South Korea), 4 - Hallym University (South Korea), 5 - Kongju National University (South Korea), 6 - Suncheon National University (South Korea)
P2050	EFFECTS OF SUPPORTS ON THE PRODUCTION OF FUEL-RANGE HYDROCARBONS IN THE HYDROTREATMENT OF SOYBEAN OIL WITH PLATINUM-BASED CATALYSTS Kim Chul Ung (1), Hyung Ju Kim (1), Tae Wan Kim (1), Ho-Jeong Choi (1), Soon Yong Jeong (1), Jeong Rang Kim (1) 1 - Center for Convergent Chemical Process (South Korea)
P2051	SUPERCRITICAL ETHANOLYSIS OF LIGNIN IN THE PRESENCE OF RU-NI BIMETALLIC CATALYST Kim Jae-Young (1), Park Shin Young (1), Shinyoung Oh (1), Hwang Hyewon (1), Lee Jae Hoon (1), Moon Jaegwan (1), Choi Joon Weon (1) 1 - Seoul National University (South Korea)
P2052	CATALYTIC DEPOLYMERIZATION OF LIGNIN IN SUPERCRITICAL ETHANOL/WATER MIXTURES Kristianto Ivan (1) (2), Limarta Susan (1) (2), Suh Dong Jin (1) (2), Jae Jungho (1) (2) 1 - Korea University of Science and Technology (South Korea), 2 - Korea Institute of Science and Technology (South Korea)
P2053	CATALYTIC PYROLYSIS OF LIGNIN WITH SOLID ACID CATALYSTS Lee Hyung Won (1), Lee Heejin (1), Kim Young-Min (1), Jae Jungho (2), Suh Dong Jin (2), Kim Seungdo (3), Park Young-Kwon (1) 1 - University of Seoul (South Korea), 2 - Korea Institute of Science and Technology (South Korea), 3 - Hallym University (South Korea)
P2054	INVESTIGATION OF THE CATALYTIC EFFECT OF TRANSITION METALS ON THE SUBCRITICAL HYDROTHERMAL LIQUEFACTION OF NON-WOODY BIOMASS Lee Jae Hoon (1), Hwang Hyewon (1), Choi In-Gyu (1), Choi Joon Weon (2) (3) 1 - Department of Forest Sciences, CALS, Seoul National University (SNU) (South Korea), 2 - Graduate School of International Agricultural Technology, Seoul National University (SNU) (South Korea), 3 - Institute of Green-Bio Science and Technology, Seoul National University (SNU) (South Korea)

POSTER SESSION 2: Wednesday 11 May & Thursday 12 May

P2055	PRODUCTION OF VALUABLE PRODUCTS BY CATALYTIC UPGRADING OF PYROLYTIC OIL FROM JATROPHA WASTE OVER METAL/ZEOLITE CATALYSTS Lee Kyong-Hwan (1), Lee Jin-Hyuk (1), Hwang Kyung-Ran (1), Lee Jin-Suk (1), Han Jeong Sik (2) 1 - Climate Change Energy Research Division, KIER (South Korea), 2 - R&D, Agency for Defense Development (South Korea)
P2056	CATALYTIC PYROLYSIS OF BIOMASS IN NH₃ GAS WITH FLUIDIZED BED Ma Hao (1), Zhou Zhongyue, Qi Fei 1 - MOE Key Laboratory for Power Machinery and Engineering, Shanghai Jiao Tong University (China)
P2057	CATALYTIC CONVERSION OF PYROLYTIC VAPORS OF WOODY BIOMASS Margeriat Alexandre (1), Schuurman Yves, Laurenti Dorothée, Geantet Christophe, Guilhaume Nolgen, Mirodatos Claude 1 - IRCELYON, UMR 5256, CNRS - Université Lyon 1 (France)
P2058	PY-GC/MS AND EGA-MS INVESTIGATION ON FRUCTOSE, INULIN AND TOPINAMBOUR: THE PYROLYSIS PRODUCTS AND THE EFFECTS OF CATALYSTS Massaro Arianna, Ribechini Erika (1), Colombini Maria Perla 1 - Dipartimento di chimica e chimica industriale, Università di Pisa (Italy)
P2059	EFFECT OF ZEOLITE PORE SIZE ON CATALYTIC CONVERSION OF LIGNIN MODEL COMPOUNDS DURING PYROLYSIS Moon Jaegwan (1), Park Shin Young (1), Lee Jae Hoon (1), Choi Joon Weon (2) (3) 1 - Department of Forest Sciences, CALS, Seoul National University, Seoul (South Korea), 2 - Graduate School of International Agricultural Technology, Seoul National University, Pyeongchang (South Korea), 3 - Institute of Green-Bio Science and Technology, Seoul National University, Pyeongchang (South Korea)
P2060	CATALYTIC PYROLYSIS OF LIGNIN USING CO- AND NI-DOPED ZEOLITE CATALYSTS Nowakowski Daniel Jozef (1), Sajdak Marcin, Bridgwater Tony 1 - European Bioenergy Research Institute, Aston University (United Kingdom)
P2061	EFFECT OF CALCIUM OXIDE ON YIELD AND COMPOSITION OF BIO-OIL OBTAINED FROM SUGARCANE BAGASSE FAST PYROLYSIS Osorio Velasco Jessi (1), Chejne Farid (2) 1 - Universidad Nacional de Colombia (COLOMBIA) (Colombia), 2 - Universidad Nacional de Colombia (COLOMBIA) (Colombia)
P2062	CATALYTIC FAST PYROLYSIS OF PONGAMIA PINNATA WASTE USING ZEOLITE Y PREPARED FROM COAL FLY ASH Soongprasit Kanit (1), Sricharoenchaikul Viboon (2), Atong Duangduen (1) 1 - National Metal and Materials Technology Center, National Science and Technology Development Agency (Thailand), 2 - Department of Environmental Engineering, Faculty of Engineering (Thailand)
P2063	NI-, FE-, CO- AND CU-BASED CATALYSTS FOR HYDROGEN PRODUCTION FROM CATALYTIC GASIFICATION OF BIOMASS Wu Chunfei (1), Liu Xiaotong (1), Nahil Mohamad (2), Williams Paul (3) 1 - University of Hull (United Kingdom), 2 - MOHAMAD NAHIL (United Kingdom), 3 - School of chemical and process engineering (United Kingdom)
P2064	STEAM REFORMING OF PYROLYSIS VAPORS OVER CHAR BASED CATALYST Yanik Jale (1), Duman Gozde 1 - Ege University (Turkey)
P2065	CATALYTIC PYROLYSIS OF OLIVE POMACE Yanik Jale (1), Duman Gozde 1 - Ege University (Turkey)
BIOMASS / REACTORS	
P2066	FLUIDIZED BED PYROLYSIS OF OLIVE KERNEL BIOMASS IN A THERMOGRAVIMETRIC REACTOR Al-Farraj Abbas (1) 1 - Cardiff University School of Engineering (United Kingdom)
P2067	GUAYULE (PARTHENIUM ARGENTATUM) PYROLYSIS BIOREFINING - PRODUCTION OF HYDROCARBONS FROM GUAYULE VIA TAIL-GAS REACTIVE PYROLYSIS Boateng Akwasi (1), Mullen Charles (1), Elkasabi Yaseen (1) 1 - ARS-USDA Eastern Regional Research Center (United States)
P2068	EXPERIMENTAL COMPARISON OF FAST AND INTERMEDIATE PYROLYSIS AT PILOT SCALE Funke Axel (1), Tomasi-Morgano Marco (1), Dahmen Nicolaus (1), Leibold Hans (1) 1 - Karlsruhe Institute of Technology (Germany)
P2069	PROCESS SIMULATION OF THE CHEMICAL LOOPING PROCESS FOR HYDROGEN PRODUCTION USING HEAVY FRACTION OF BIO-OIL AND CARBON EMISSION ANALYSIS Heng Lijun (1), Zhang Huiyan, Zhou Mengmeng, Xiao Rui 1 - Southeast University (China)
P2070	PLASMA/CATALYST DEVELOPMENT TO PRODUCE HIGH QUALITY SYNGAS FROM BIOMASS Nahil Mohamad (1), Williams P.t. 1 - MOHAMAD NAHIL (United Kingdom)
P2071	CATALYTIC AND NON-CATALYTIC BIOMASS PYROLYSIS PROCESS IN A CONTINUOUS SCREW REACTOR Solar Jon (1), De Marco Isabel, Caballero Blanca Maria, Lopez-Urionabarrenechea Alex, Adrados Aitziber, Rodriguez Nélida, Gastelu Naia 1 - Chemical and Environmental Engineering Depart. (UPV/EHU) (Spain)
P2072	PRODUCTION OF PYROLYSIS OILS FROM BROWN ALGAE USING AN AUGER-TYPE CONTINUOUS PYROLYSIS REACTOR Suh Dong Jin (1), Choi Jae-Wook (1), Ha Jeong-Myeong (1), Jae Jungho (1) 1 - Korea Institute of Science and Technology (South Korea)

POSTER SESSION 2: Wednesday 11 May & Thursday 12 May

P2073	TECHNO-ECONOMIC ANALYSIS OF DECENTRAL CHP CONCEPTS BASED ON PYROLYSIS Tomasi Morgano Marco (1), Konath Tim (1), Leibold Hans (1), Richter Frank (1), Stapf Dieter (1) 1 - Karlsruhe Institute of Technology (Germany)
P2074	STUDY OF THE IMPACT OF BIOMASS COMPOSITION ON SYNGAS QUALITY IN A BUBBLING FLUIDIZED BED REACTOR THROUGH MODELING AND SIMULATION Wang Meihong (1), Aneke Mathew (1) 1 - Process and Energy Systems Engineering, School of Engineering, University of Hull (United Kingdom)
P2075	STOCHASTIC REACTOR MODELLING FOR BIOMASS PYROLYSIS Weber Kathrin (1), Li Tian (1), Lovas Terese (1), Seidel Lars (2), Perlman Cathleen (2), Mauss Fabian (2) 1 - Norwegian University of Science and Technology (Norway), 2 - LOGE AB (Sweden)
P2076	PYROLYSIS-GASIFICATION OF SAWDUST FOR HIGH H₂/CO-RATIO SYNGAS THROUGH CHEMICAL LOOPING PROCESS IN A DUAL FLUIDIZED BED SYSTEM Zeng Jimin (1), Xiao Rui (1), Zeng Dewang (1), Fang Yan (1), Shao Shanshan (1) 1 - Southeast University (China)
FOSSIL FUELS	
P2077	BIOMASS/COAL CONTAINING BRIQUETTES Barriocanal Carmen (1), Florentino Laura, Diaz-Faes Elvira 1 - Instituto Nacional del Carbon - Consejo Superior de Investigaciones Cientificas (Spain)
P2078	USE OF ADDITIVES TO AVOID OXIDATION AND TO RECOVER THE COKING PROPERTIES OF BITUMINOUS COALS Barriocanal Carmen (1), Vega Maria, Fernandez Ana, Casal M, Diaz-Faes Elvira 1 - Instituto Nacional del Carbon - Consejo Superior de Investigaciones Cientificas (Spain)
P2079	N AND S CONVERSION DURING PRESSURIZED PYROLYSIS UNDER CO₂ ATMOSPHERE IN FLUIDIZED BED Duan Lunbo (1), Duan Yuanqiang, Cai Liang, Changsui Zhao 1 - Southeast University (China)
P2080	STUDY OF THE FORMATION OF AROMATICS IN THE PYROLYSIS OF CYCLOPENTENE Herbinet Olivier (1), Rodriguez Anne (1), Husson Benoit (1), Battin-Leclerc Frédérique (1), Wang Zhandong (2), Cheng Zhanjun (2), Qi Fei (2) 1 - Laboratoire Réactions et Génie des Procédés (France), 2 - National Synchrotron Radiation Laboratory (China)
P2081	PYROLYSIS AND GASIFICATION OF HIGH ASH COAL IN STEAM AND CO₂ Jayaraman Kandasamy (1), Belandria Veronica (2) (1), Bostyn Stéphane (2) (1), Gokalp Iskender (1) 1 - Institut de Combustion Aérothermique Réactivité et Environnement (France), 2 - IUT d'Orléans (France)
P2082	APPLYING IONIC LIQUID TO INHIBIT COAL SPONTANEOUS COMBUSTION VIA GREEN ANALYTICAL METHODS AND KINETIC MODELS BY TG/FTIR Laiwang Bin (1) 1 - Doctoral Program, Graduate School of Engineering Science and Technology, National Yunlin University of Science and Technology, Yunlin (China)
P2083	INFLUENCE OF PRESSURE (1 MBAR -1 000 BAR) ON THE PYROLYSIS OF ALKANES: EXPERIMENTS AND KINETIC MODELING Lannuzel Frédéric, Bounaceur Roda (1), Burkle-Vitzthum Valerie (1), Michels Raymond (2), Scacchi Gerard, Marquaire Paul-Marie (1) 1 - Laboratoire Réactions et Génie des Procédés (France), 2 - University of Lorraine / CNRS / CREGU, GeoRessources Laboratory (France)
P2084	HIGH PRESSURE PYROLYSIS OF HIGH-DENSITY HYDROCARBON FUEL Liu Guozhu (1) 1 - Tianjin University (China)
P2085	CATALYTIC PYROLYSIS MECHANISM OF N-PENTANE TO PRODUCE LIGHT OLEFINS Liu Guozhu (1), Hou Xu (2) 1 - Tianjin University (China), 2 - Tianjin University (China)
P2086	KINETIC ANALYSIS OF NON-ISOTHERMAL PYROLYSIS OF OIL SAND BITUMEN USING MULTIPLE GAUSSIAN-DISTRIBUTED ACTIVATION ENERGY MODEL Shin Sangcheol (1), Im Soo Ik (1), Rho Nam Sun (2), Lee Ki Bong (1) 1 - Korea University (South Korea), 2 - Korea Institute of Energy Research (South Korea)
P2087	EFFECT OF ATMOSPHERE REACTION, COAL RANK AND HEATING RATE ON THE DEVOLATILIZATION OF COLOMBIAN COALS Valdes Carlos (1), Chejne Farid (1), Roman Juan (1), Marrugo Gloria (1), Montoya Jorge (1) 1 - Universidad Nacional de Colombia (COLOMBIA) (Colombia)
P2088	USE OF A MECHANICALLY FLUIDIZED BED PYROLYSER FOR BITUMEN AND ASPHALTS APPLICATIONS Villemont Clément (1), Briens Cedric (2), Berruti Franco (2), Mangin Patrice (3) 1 - Université du Québec à Trois Rivières (Canada), 2 - University of Western Ontario (Canada), 3 - Université du Québec à Trois Rivières (France)
HYDROCARBONS / KINETICS	
P2089	CLOSED-SYSTEM PYROLYSIS OF ALIPHATIC ETHERS AT ELEVATED PRESSURE Alpermann Theodor (1) 1 - Federal Institute for Geosciences and Natural Resources (Germany)
P2090	STUDY OF THE FORMATION OF POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) FROM HYDROCARBON PYROLYSIS IN LOW-PRESSURE GAS CARBURIZING CONDITIONS Bensabath Tsilla (1) (2), Monnier Hubert (1), Glaude Pierre-Alexandre (2) 1 - Institut national de recherche et de sécurité (France), 2 - Laboratoire Réactions et Génie des Procédés (France)
P2091	PYROLYSIS OF N-BUTYLCYCLOHEXANE AT HIGH PRESSURE (100 BAR). STABILITY OF NAPHTHENES IN PETROLEUM RESERVOIRS Bounaceur Roda (1), Béhar Françoise (2), Rakotoalimanana Darwin (1), Burklé-Vitzthum Valérie (1), Marquaire Paul-Marie (1) 1 - Laboratoire Réactions et Génie des Procédés (France), 2 - Total E&P (France)
P2092	AROMATIC FORMATION DURING THE PYROLYSIS OF TETRAHYDROFURAN IN A JET-STIRRED REACTOR Herbinet Olivier (1), Frottier Ophélie (1), Battin-Leclerc Frédérique (1) 1 - Laboratoire Réactions et Génie des Procédés (France)
P2093	KINETIC MODELING OF TRIS(3-CHLOROETHYL)AMINE PYROLYSIS Lizardo Huerta Juan Carlos (1), Sirjean Baptiste (1), Verdier Laurent (2), Fournet René (1), Glaude Pierre-Alexandre (1) 1 - Laboratoire Réactions et Génie des Procédés (France), 2 - DGA Maîtrise NRBC (France)
P2094	MECHANISM OF DIBENZOFURAN PYROLYSIS AND OXIDATION Marquaire Paul-Marie (1), Tritz Audrey, Ziegler-Devin Isabelle, Bounaceur Roda (1), Simon Yves 1 - Laboratoire Réactions et Génie des Procédés (France)
P2095	FUNCTIONALIZED CARBON-BASED SUPPORT MATERIALS FROM BENCH-SCALE BATCH PYROLYSIS FOR PHOTOCATALYTIC OXIDATION OF VOLATILE ORGANIC COMPOUNDS (VOCS) Masek Ondrej (1), Colmenares Juan, Lisowski Pawel 1 - University of Edinburgh (United Kingdom)
P2096	KINETIC STUDY OF METHYLCYCLOHEXANE PYROLYSIS Simon Yves (1)

POSTER SESSION 2: Wednesday 11 May & Thursday 12 May

1 - Laboratoire Réactions et Génie des Procédés (France)

P2097 MICROKINETIC MODELING OF HYDROGEN PRODUCTION BY CATALYTIC PARTIAL OXIDATION OF PROPANE OVER CEO2

Simon Yves (1)

1 - Laboratoire Réactions et Génie des Procédés (France)

P2098 PYROLYSIS OF DIETHYL ETHER IN A JET STIRRED REACTOR

Vin Nicolas (1), Battin-Lelerc Fr d rique (1), Herbinet Olivier (1)

1 - Laboratoire R actions et G nie des Proc d s (France)

P2099 EXPERIMENTAL AND AB INITIO STUDIES ON PYROLYSIS MECHANISM OF THREE ISOMERIC DIHYDROXYBENZENES

Yuki Furutani (1), Huamei Yang (1), Shinji Kudo (2), Jun-Ichiro Hayashi (2), Koyo Norinaga (2)

1 - Interdisciplinary Graduate School of Engineering Sciences, Kyushu University (Japan), 2 - Institute for Materials Chemistry and Engineering, Kyushu University (Japan)

INSTRUMENTATION

P2100 BIOMASS PYROLYSIS REACTIONS AND PRODUCTS AS STUDIED BY THERMAL ANALYSIS TECHNIQUES

Andr  R. (1), Lebourleux G. (1), Mayoux C. (1), Wirth E. (1)

1 - SETARAM Instrumentation (France)

P2101 DEVELOPMENT OF A NOVEL SILICA-BASED MICROWAVE RECEPTOR FOR MICROWAVE PYROLYSIS APPLICATIONS

Hamzehlouia Sepehr (1), Latifi Mohammad (1), Legros Robert (1), Chaouki Jamal (1)

1 - Polytechnique Montr al (Canada)

P2102 DEVELOPMENT OF A NEW SAMPLING METHOD BY CARBON NANOTUBE BASED GECKO TAPE FOR PY-GC/MS

Nagai Yoshitaka (1), Kamiya Yoshimi (2), Honda Takayuki (3)

1 - Graduate School of Science and Technology, Meiji Univ. (Japan), 2 - Tokyo Metropolitan Industrial Technology Research Institute (Japan), 3 - School of Science and Technology, Meiji Univ. (Japan)

P2103 EXPANSION OF THERMAL ANALYSIS TECHNIQUE BY USING A PYROLYZER

Ozaki Ryo (1), Takayuki Honda (2)

1 - Meiji University Graduate School of Science and Technology (Japan), 2 - Meiji University School of Science and Technology (Japan)

P2104 MODIFIED PYROPROBE FOR STUDYING THERMOCHEMICAL REACTIONS: DESIGN, CHARACTERIZATION, AND EXPERIMENTATION

Pecha Brennan (1), Montoya Jorge (1), Howe Dan (2), Chejne Farid (3), Garcia-Perez Manuel (1)

1 - Washington State University (United States), 2 - Pacific Northwest National Laboratory (United States), 3 - Universidad Nacional de Colombia (Colombia)

P2105 NEW FURNACE-TYPE PYROLYZER FEASIBLE FOR HIGH-PERFORMANCE ANALYTICAL PYROLYSIS MEASUREMENTS WITH EASY INSTALLATION, OPERATION, AND MAINTENANCE

Watanabe Atsushi (1), Ito Koichi (1), Soll Michael (1), Terame Norio (2) (1), Ohtani Hajime (3)

1 - Frontier Laboratories Ltd (Japan), 2 - Tohoku University [Sendai] (Japan), 3 - Nagoya Institute of Technology (Japan)