



**PROGRAM
OF
THIRD INTERNATIONAL SYMPOSIUM
ON GREEN CHEMISTRY FOR ENVIRONMENT, HEALTH AND
DEVELOPMENT**

**Skiathos Palace Hotel, Skiathos Island, Greece
October 3-5, 2012**

Organized by:

Society of Ecotoxicology & Environmental Safety (SECOTOX)

and

Department of Planning and Regional Development, School of Engineering
University of Thessaly, Greece

In collaboration with:

Dept. of Chemistry, Aristotle University of Thessaloniki
Dept. of Chemical Engineering, Aristotle University of Thessaloniki
Hellenic Green Chemistry Network

and

Technical Chamber of Greece

Under the aegis of:

Ministry of Environment, Energy and Climate Change
and
Municipality of Skiathos

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**WEDNESDAY
OCTOBER, 03**

09:00-11:00

Opening – Registration

10:30 – 11:00

Opening remarks by the organizers – greetings by officials

CHAIRS: A. Kungolos, C.P. Poulos, P. Samaras, C. Sikalidis and A. Zouboulis

11:00 – 11:30

Toxkit microbiotests: practical and low cost tools for research and toxicity monitoring

Keynote lecture: G. Persoone (Ghent University, Belgium)

PROGRAM OVERVIEW – ORAL PRESENTATIONS

| WEDNESDAY OCTOBER, 03 | ROOM A | ROOM B |
|----------------------------------|---|--|
| <i>11:30-12:00</i> | <i>COFFEE BREAK</i> | |
| 12:00-13:15 | Toxicology and Ecotoxicology of Green Chemicals, Products and Processes Session I CHAIRS: K.-W. Schramm and G. Persoone | Green Development Session I CHAIRS: P. Samaras and A. Zouboulis |
| <i>16:30-17:00</i> | <i>COFFEE</i> | |
| 17:00-18:30 | Toxicology and Ecotoxicology of Green Chemicals, Products and Processes Session II CHAIRS: A.K. Tsakalof and C. Emmanouil | Green Energy Session I CHAIRS: G. Gaidajis and V.J. Inglezakis |
| <i>19:00</i> | <i>Welcoming reception</i> | |
| THURSDAY, OCTOBER, 04 | ROOM A | ROOM B |
| 09:30-11:30 | Environmentally Benign Processes and Products Session I CHAIRS: J.S.J. Hargreaves and M. Bai | Industry - Environment & Health Session I CHAIRS: I. Figà-Talamanca and Y. Uysal |
| <i>11:30-12:00</i> | <i>COFFEE BREAK</i> | |
| 12:00-13:15 | Environmentally Benign Processes and Products Session II CHAIRS: Z.B. Romanowska-Duda and E. Rafiee | Education in Green Chemistry and Engineering Session II CHAIRS: K. Abeliotis and E. Kalambokis |
| 16:30-17:00 | <i>COFFEE BREAK</i> | |
| 17:00-19:00 | Development and Identification of Novel Green Technologies, Products and Perspectives Session III CHAIRS: R. Tsitouridou and M. Mingazzini | Environmental Scores and Measures Session III CHAIRS: H. Shen and E.A. Deliyanni |
| <i>20:30</i> | <i>BANQUET</i> | |
| FRIDAY, OCTOBER, 05 | ROOM A | ROOM B |
| 09:30-11:30 | Designing Green Pharmaceuticals, Drugs and Cosmetics Session II CHAIRS: Y.S. Negi and K. Ghandi | Environmental Economics – Legislation and Policies Session II CHAIRS: K. Aravossis and S. Pakalin |
| <i>11:30-12:00</i> | <i>COFFEE BREAK</i> | |
| 12:00-13:30 | Green Catalysis and Biocatalysis Session II CHAIRS: F. Jérôme and M. Schlaf | Green Solvents Session II CHAIRS: M. Mitrakas and P.L. Lau |
| <i>13:30</i> | <i>END OF THE SYMPOSIUM</i> | |

ORAL PRESENTATIONS

| WEDNESDAY OCTOBER, 03 | ROOM A | ROOM B |
|----------------------------------|--|--|
| | Toxicology and Ecotoxicology of Green Chemicals, Products and Processes Session I CHAIRS: K.-W. Schramm and G. Persoone | Green Development Session I CHAIRS: P. Samaras and A. Zouboulis |
| 11:30-12:00 | <i>COFFEE BREAK</i> | |
| 12:00-12:15 | Molecular Exposomics: Status, Perspectives, and Challenges <i>K.-W. Schramm</i> | Green Chemistry: Design of safe products and processes for Sustainability <i>C.P. Poulos</i> |
| 12:15-12:30 | Detoxification of model toxic solutions by humic substances <i>N.S. Kudryasheva and A.S. Tarasova</i> | Tetrahymena pyriformis as a cell model for quality determination of treated wastewater <i>J. Sofia, B. Elkhalfi, A. Saidi, B. Amrani and A. Soukri</i> |
| 12:30-12:45 | Toxicity of FeSO ₄ and CuSO ₄ to different sizes of white shrimp (Penaeus vannamei) in low salinity shrimp pond water <i>Xie Qinming and Zhang Ting</i> | Towards sustainability: The Mediterranean industrial areas case <i>I.-S. Antonopoulos, A. Karagiannidis, A. Zouboulis and P. Samaras</i> |
| 12:45-13:00 | Mutagenicity and PAH-Emissions of Fossil Diesel Fuel in comparison to Rapeseed oil <i>J. Kunze, J. Blassnegger and K.-W. Schramm</i> | Comparison of green and non-green products: Romanian market case study <i>V.J. Inglezakis, V.C. Venetis, P. Coutsikos, G. Lazar, V. Nedeff, C. Cojoc, B. Paliuc and M. Mocanasu</i> |
| 13:00-13:15 | Spatial and temporal variation in mussel (M galloprovincialis) biomarkers and organic pollution body burden along eastern Mediterranean coasts <i>C. Emmanouil, K. Kasiotis, K. Kyriakopoulou, P. Anastasiadou, A. Papadi-Psyllou, N. Tsiropoulos and K.Machera</i> | The study of urban treated sewage utilization in green space irrigation <i>M. Faghanpour, K. Jahanifar, A. Firoozabadi, S. M. Hosseinifar and F. Abolghasemzadeh</i> |
| 16:30-17:00 | <i>COFFEE</i> | |
| | Toxicology and Ecotoxicology of Green Chemicals, Products and Processes Session II CHAIRS: A.K. Tsakalof and C. Emmanouil | Green Energy Session I CHAIRS: G. Gaidajis and V.J. Inglezakis |
| 17:00-17:15 | Development and application of LC-MS based method for biomonitoring of population exposure to pesticide imidacloprid <i>M. Kavvalakis, M.N. Tzatzarakis, A.K. Tsakalof and A.M. Tsatsakis</i> | A preliminary assessment of household carbon footprint in Greece <i>G. Gaidajis, K. Angelakoglou and I. Margiolaki</i> |

| WEDNESDAY OCTOBER, 03 | ROOM A | ROOM B |
|----------------------------------|---|---|
| 17:15-17:30 | Environmental and health impacts of the European baby food industry <i>M. Pandelova and K.-W. Schramm</i> | Cost and energy consumption functions for various conventional wastewater treatment plants <i>M. Gratiou, M. Tsalkatidou and E. Savvanidou</i> |
| 17:30-17:45 | Human safety assessment of natural and synthetic cosmetic additives: In-silico toxicokinetic and toxicodynamic approach <i>M. Gajewska, J.M. Zaldívar, A. Pains, H. Briesen and K.-W. Schramm</i> | Feasibility study for briquettes manufacture from lignocellulosic material oil palm <i>Y. González, S. Rincón and G. Camargo</i> |
| 17:45-18:00 | Local models for the prediction of acute toxicity to <i>Daphnia magna</i> <i>E. Giagloglou, D. Ballabio, A. Mauri, K. Mansouri, V. Consonni and R. Todeschini</i> | Clean energies development and built environment <i>A. Omer</i> |
| 18:00-18:15 | Bioremediation of Cr(III) by the living cells of <i>Phanerochaete chrysosporium</i> - a lignolytic white-rot fungus <i>M.A. Hanif and H.N. Bhatti</i> | Performance study of the CIDI engine using simaroba biodiesel and diesel blends <i>Y.U. Biradar and B.R. Hosamani</i> |
| 18:15-18:30 | Ecotoxicological assays as a means of monitoring vulnerable aquatic ecosystems <i>A. Kungolos, V. Tsiridis, M. Petala, C. Emmanouil, S. Kipouros and V. Manakou</i> | Effect of System Load Factor on Transmission & Distribution Losses <i>S.R. Sadugol</i> |
| 19:00 | WELCOMING RECEPTION | |

| THURSDAY, OCTOBER, 04 | ROOM A | ROOM B |
|--------------------------|---|---|
| | Environmentally Benign Processes and Products Session I CHAIRS: J.S.J. Hargreaves and M. Bai | Industry - Environment & Health Session I CHAIRS: I. Figà-Talamanca and Y. Uysal |
| 09:30-09:45 | Biochar produced from Malt Spent Rootlets and its use for mercury removal from aqueous solutions <i>L.G. Boutsika, I.D. Manariotis and H.K. Karapanagioti</i> | Experimental study on the removal and accumulation of chromium from wastewater using duckweed, Lemna minor L. <i>Y. Uysal</i> |
| 09:45-10:00 | Thiol-yne mediated synthesis of nanostarch grafted oxo-vanadium Schiff base for the oxidation of alcohols <i>S. Verma and S.L. Jain</i> | Effect of electric arc furnace dust (EAFD) on dynamic creep of asphalt concrete mixtures <i>T. Khedeywi and M. Alsheyab</i> |
| 10:00-10:15 | The use of dihydrogen dioxide for PAHs removing from industrial wastewater <i>A. Turek and M. Włodarczyk-Makula</i> | Dephenolisation of olive mill wastewater by <i>Trametes versicolor</i> and <i>Funalia Trogii</i> <i>Y. Cuci, Y. Uysal, E. Özen and Ö. Çınar</i> |
| 10:15-10:30 | The production of high-concentration hydroxyl radicals using strong electric-field discharge at an atmospheric pressure and its environmental application <i>M. Bai, Z. Zhang, M. Bai and X. Bai</i> | Cytotoxicity of platinum(II) complexes with O,O'-dialkyl esters of (S,S)-ethylenediamine-N,N'-di-2-(4-methyl)pentanoic acid on human cancer colon cell lines <i>J.M. Vujić, M. Milovanović, V. Volarević, N. Arsenijević and S.R. Trifunović</i> |
| 10:30-10:45 | Solid and liquid products of hydrothermal carbonization: Patterns of volatile organic compounds <i>R. Becker, U. Dorgerloh, M. Helms, E. Paulke, J. Mumme and I. Nehls</i> | Serum concentration of polybrominated diphenyl ethers (PBDE) in young girls from the city of Rome <i>F. Maranghi, R. Tassinari, A. Mantovani, S. Cianfarani, P. Cambiaso, A. Deodati, E. Coni, F. Di Domenico, F. Giordano, P. Nardone and I. Figà-Talamanca</i> |
| 10:45-11:00 | Value added utilization of bagasse ash and its unburned carbon <i>A. Bajwa, M. Balakrishnan, R.K. Singh, G. Svensson and V.S. Batra</i> | Exposure of Turkish school children to VOCs, nitrogen dioxide and ozone <i>E.O. Gaga, G. Demirel, Ö. Özden and T. Döğeroğlu</i> |
| 11:00-11:15 | Recovery of lead from waste electrical and electronic equipment <i>O.C. Eneh and J.C. Agunwamba</i> | In vitro antitumoral activity of palladium(II) complexes with O,O'-dialkyl esters of (S,S)-ethylenediamine-N,N'-di-2-(4-methyl)pentanoic acid on human cancer colon cell lines <i>S.R. Trifunović, J.M. Vujić, M. Milovanović, V. Volarević and N. Arsenijević</i> |
| 11:15-11:30 | Prevent nitrate leaching in soil by using biodiesel by-products <i>I. Czinkota, G. Rétháti, A. Kovács, I. Issa and L. Tolner</i> | Systematic study of perfluorooctanoic acid (PFOA) toxicity by using model human hepatocyte L-02 <i>S. Peng, J. Zhang, M. Tian, Z. Wang and H. Shen</i> |
| 11:30-12:00 | COFFEE BREAK | |
| | Environmentally Benign Processes and Products Session II CHAIRS: Z.B. Romanowska-Duda and E. Rafiee | Education in Green Chemistry and Engineering Session II |

| THURSDAY, OCTOBER, 04 | ROOM A | ROOM B |
|--------------------------|---|---|
| | | CHAIRS: K. Abeliotis and E. Kalambokis |
| 12:00-12:15 | Iron containing wastes: catalytic resources for the generation of hydrogen and magnetic carbon containing composites for possible application to water decontamination <i>A. Alharthi, M. Balakrishnan, V.S. Batra, T.H. Flowers, N. Gupta, J.S.J. Hargreaves, I.D. Pulford, J.L. Rico, S. Sushil and J. Wigzell</i> | Microwave Assisted Biodiesel Synthesis: a High School Green Teaching Lab Module <i>E. Kalambokis, V. Zacharopoulou, V. Koidi and L.M.K. Chalkias</i> |
| 12:15-12:30 | Changes in the concentration of organic substances (selected indicators) and AOX in water during treatment processes <i>A. Nowacka and M. Włodarczyk-Makula</i> | Green Qualitative Organic Analysis <i>S. Dhingra and S.M. Sonkar</i> |
| 12:30-12:45 | Solvent free and mechanochemical synthesis of some Ni (II) complexes at the undergraduate level <i>I.T. Sidhwani</i> | Development of educational material for the secondary schools in Greece focusing on the utilisation of biomass as a raw material <i>M. Kapassa and K. Abeliotis</i> |
| 12:45-13:00 | A biocatalytic redox-selfsufficient cascade reaction towards ϵ -caprolacton <i>J. H. Sattler, H. Lechner, B. Grischek, M. Toesch and W. Kroutil</i> | Metal Ions Uptake using Schiff Bases derived from Salicylaldehyde and an appropriate amino compounds <i>A. Etoriki, S. Ben-Saber, M. El-ajaily and A. Maihub</i> |
| 13:00-13:15 | Enzyme production of <i>Pleurotus ostreatus</i> in a medium containing a mix of agro-industrial waste and textile dyes <i>M. Correa, M. I. Rocha, A.C. Peruzzo, M. Bonatti-Chaves, E. Wisbeck, S. A. Furlan and R. M.M. Gern</i> | |
| 16:30-17:00 | COFFEE | |
| | Development and Identification of Novel Green Technologies, Products and Perspectives Session III CHAIRS: R. Tsitouridou and M. Mingazzini | Environmental Scores and Measures Session III CHAIRS: H. Shen and E.A. Deliyanni |
| 17:00-17:15 | Sustainable and effective utilization of olive mill wastewater by applying physicochemical and biological processes <i>A. Vlyssides, E.M. Barampouti and S. Mai</i> | Effect of Agricultural Practices on Restoration of Soil Properties of Degraded Land in Brick-kiln Area: A Case Study <i>S. Pant, N. Tewari and S. S. Rai</i> |
| 17:15-17:30 | Biochar sorbents produced from food-industry byproducts <i>I.D. Manariotis and H.K. Karapanagioti</i> | The sources of the pollution of hydroecosystems with nutrients and the load of pastures in the catchment areas of the Voghchi and Meghriget rivers, Armenia <i>K. Grigoryan and G. Gevorgyan</i> |
| 17:30-17:45 | Adsorption of lead from aqueous solution onto untreated orange barks: equilibrium, kinetics and thermodynamics <i>N. Azouaou, Z. Sadaoui and H. Mokaddem</i> | Effects of Intensive Hog Farming Operations on Mediterranean rural communities and human health <i>S. Liodakis, E. Efthymiou, I. P. Agiovlasis, C. Dimitrakaki and J. Tountas</i> |
| 17:45-18:00 | Effects of Al and Ag doping on thermoelectric properties of Zn ₄ Sb ₃ intermetallic compound | Determination of heavy metals on marine sediments using the green extraction method: "Microwave Assisted Micellar Extraction" and |

| THURSDAY, OCTOBER, 04 | ROOM A | ROOM B |
|--------------------------|--|---|
| | <i>R. Carlini, D. Marré, I. Pallecchi, R. Ricciardi and G. Zanicchi</i> | GFAAS <i>A. M. Hernández-Martínez and C. Padrón-Sanz</i> |
| 18:00-18:15 | Biosorption profile of aqueous Hg(II) ions on a green resin -Dry cow dung powder employing radiotracer technique <i>N. S. Barot and H.K. Bagla</i> | The ecological evaluation of the Voghchi and Meghriget rivers by the hydrochemical and hydrobiological parameters <i>G. Gevorgyan, A. Danielyan, K. Grigoryan and S. Minasyan</i> |
| 18:15-18:30 | Valorization of CFB-combustion fly ashes as the raw materials for the development of value-added ceramics <i>V. Karayannis, A. Moutsatsou, N. Koukouzas, G. Itskos, C. Vasilatos and G. Raftopoulos</i> | BAP (PAH) source apportionment air quality impact study in Zaragoza area (Spain) by using WRF-CMAQ modelling system <i>R. San José, J.L. Pérez, R.M. González, M. Callen, J. M. López and A. Mastral</i> |
| 18:30-18:45 | Characterization of nano-silica gel synthesized via microwave route <i>T. Zaki, M. Samy, W. El-Azab, S. Abou-Elenin, Y.M. Moustafa and S. Faramawy</i> | Very high resolution urban simulations with WRF/UCM and CMAQ over European cities <i>R. San José, J.L. Pérez and R.M. González</i> |
| 18:45-19:00 | Removal of cadmium from aqueous solutions by adsorption onto activated carbon prepared from date stems <i>H. Hadoun, M. Belmedani, A. Belgacem and Z. Sadaoui</i> | Heavy metal Pollution and its Management in the course of Acclimated Microorganisms <i>A. Kumar</i> |
| 21:30 | BANQUET | |

| FRIDAY, OCTOBER, 05 | ROOM A | ROOM B |
|------------------------|--|---|
| | Designing Green Pharmaceuticals, Drugs and Cosmetics Session I CHAIRS: Y.S. Negi and K. Ghandi | Environmental Economics – Legislation and Policies Session II CHAIRS: K. Aravossis and S. Pakalin |
| 09:30-10:00 | Corn Cob-based Nanoparticles: Ester Prodrugs of 5-Aminosalicylic acid, Synthesis, Physicochemical Characterization and Studies of Possible Targeted Delivery <i>Y.S. Negi and S. Kumar (Invited lecture: Y.S. Negi)</i> | |
| 10:00-10:15 | Silica-bonded N-Propyl Sulfamic Acid: A Recyclable Catalyst for Microwave-assisted synthesis of various dihydropyrano[3,2-c]chromenes under Green conditions <i>A. Gharib, M. Jahangir and (Hans) W. Scheeren</i> | ENPV or ERR? Total Project's Uncertainty Index (TPUI) for sustainable decision-making <i>A.C. Karmperis, K. Aravossis, I.P. Tatsiopoulos and A. Sotirchos</i> |
| 10:15-10:30 | An efficient one-pot synthesis of imidazolidine-2,4-diones and 5,5-Diaryl-2-thioxoimidazolidin-4-ones <i>M.M. Ghanbari, I. Yavari and A. Shameli</i> | Towards Green Policies in Developing Economies <i>L. Raghupathy and A. Chaturvedi</i> |
| 10:30-10:45 | The application of micellar micro-reactors in total synthesis of active pharmaceutical ingredients <i>B.S. Samant</i> | From current Directive to the upcoming Regulation on Biocides, transition from "old" to "new" EU legislation on biocidal products <i>S. Pakalin</i> |
| 10:45-11:00 | Antimicrobial activity and chelating power of chitin and chitosan obtained by different treatments <i>E. Bouchra, B. ElAmrani and A. Soukri</i> | European Environmental Policy <i>D. Georgaraki</i> |
| 11:00-11:15 | Green synthesis of novel benzopyran derivatives using silica-sulfamic acid-water catalytic system <i>N. Ahmed and Z.N. Siddiqui</i> | Qualitative uncertainty analysis in chemical risk assessment <i>L. Maxim and J. van der Sluijs</i> |
| 11:15-11:30 | | The implementation of IPPC Directive and the new legal framework Licencing of Industrial Activities in Greece <i>V. Tryfona-Panagopoulou and A. Kungolos</i> |
| | | |
| 11:30-12:00 | COFFEE BREAK | |
| | Green Catalysis and Biocatalysis Session II CHAIRS: F. Jérôme and M. Schlaf | Green Solvents Session II CHAIRS: M. Mitrakas and P.L. Lau |
| 12:00-12:15 | From Primary Alcohols to Amines – Evolution of Cascade Reactions Towards Biologically Derived Building Blocks for Polymers <i>M. Fuchs, J. Sattler, K. Tauber, J. Pfeffer, W. Kroutil and K. Faber</i> | What the Heck?: Heterogeneous Catalytic Cross-coupling Reactions in Solvent-Modified Supercritical Carbon Dioxide <i>P.L. Lau, P. Styring and R.W.K. Allen</i> |

| FRIDAY, OCTOBER, 05 | ROOM A | ROOM B |
|-----------------------------|---|---|
| 12:15-12:30 | Catalytic activation of cellulose in unconventional media <i>F. Jérôme, Q. Zhang, K. De Oliveira Vigier, E. Fourré, J.-M. Tatibouët and J. Barrault</i> | Can antimatter particles help green chemistry and environment? <i>K. Ghandi</i> |
| 12:30-12:45 | Exploring C-N bond formation Toward Greener Synthesis <i>Q. Zeng, X. Lv, C. Dai, J. Dong, D. Zhan and Y. Wang</i> | High lysozyme solubility in hydrated protic ionic liquid medium <i>C.S. Stefan and M. Anouti</i> |
| 12:45-13:00 | Green catalytic deoxygenation of glycerol <i>V. Canale, L. Tonucci, M. Bressan and N. d'Alessandro</i> | Peculiarities of electrochemical behavior of copper in ionic liquids based on imidazolium cation <i>G. Dzhungurova, D. Kultin, O. Lebedeva, A. Zakharov, E. Chernikova and L. Kustov</i> |
| 13:00-13:15 | Synthesis of 2,3-diphenylquinoxalines Catalyzed at Room Temperature and Green conditions (water Solvent) by using Silica supported Preyssler Heteropolyacid catalysts, H14[NaP5W30O110]/SiO2 <i>A. Gharib, M. Jahangir, M. Roshani and (Hans) W. Scheeren</i> | Continuous sunflower oil ethanolysis in the reciprocating plate reactor <i>I. Stamenković, I. Banković-Ilić, Z. Todorović and V. Veljković</i> |
| 13:15-13:30 | Red Mud as a catalyst for the deoxygenation of biomass <i>M. Schlaf, E. Karimi, E. de Resende, C. Gissane, A. Gomez, S.W. Kycia, R.J. Heck, R. Nicol, B. Hoff, N. Schrier, M.C. Guerreiro, I.F. Teixeira, R.M. Lago, J.V. Coelho, L.C.A. de Oliveira, I. Aigner, P. Palmisano, F. Berruti, C. Briens and P. Fransham</i> | Task-specific ionic liquids as solvents for the development of green synthetic methodologies toward bioactive molecules <i>A. Tzani, A. Douka, A. Papadopoulos, T. Kosanovic, E. Pavlatou, E. Voutsas and A. Detsi</i> |
| END OF THE SYMPOSIUM | | |

POSTER PRESENTATIONS

| WEDNESDAY, OCTOBER, 03 | | | |
|----------------------------------|--|-----|--|
| POSTER SESSION A (11:30 – 19:00) | | | |
| A01 | Preparation of activated carbon from waste of leather tanning industry <i>M.J. Magalhães, M.M.A. Freitas, P.C. Silva and A.A. Crispim</i> | A11 | In Vitro evaluation of co-exposure of PCDD/F and an organic nanomaterial (fullerene, C60) <i>R Rathore and K-W Schramm</i> |
| A02 | Environmental contaminant bisphenol a toxicity study in Swiss Albino mice model <i>S. Anjum and S. Raisuddin</i> | A12 | Microwave-assisted hydrolysis of organophosphate pesticides leading to their total decomposition up to phosphoric acid <i>L. Čechová, P. Jansa, M. Dračinský and Z. Janeba</i> |
| A03 | Landfill leachate composition and toxic potency in semi-arid areas: an integrated approach with the use of physicochemical and toxicological data <i>V. Tsarpali and S. Dailianis</i> | A13 | Preferred removal of methylene blue by stable maghemite nanoparticles using statistical based experimental design optimization; Equilibrium and kinetic studies to derive adsorption capacities and rate constants <i>A. Afkhami, T. Madrakian and R. Moosavi</i> |
| A04 | Implementation of the planted filter for the agriculture development in a suburban solidarity farm of Casablanca (Morocco) <i>A.Saidi, B.Elamrani, F.Amraoui and A.Soukri</i> | A14 | Simple in situ functionalizing magnetite nanoparticles by reactive blue-19 and their application to the effective removal of Pb ²⁺ ions from water samples <i>T. Madrakian, A. Afkhami and M. Ahmadi</i> |
| A05 | Improvement of environmental management <i>Lj. Takić1, S. Živković2 and N. Živković</i> | A15 | Pyrolysis of cork waste: an experimental study <i>J. Teixeira, A. Crispim and A. Ribeiro</i> |
| A06 | The effect of biodiversity on the flammability of forests of Pinus halepensis <i>I. Ntoufas, S. Liodakis, N. Tzamtzis, I.P. Agiovlasis and D. Vorisis</i> | A16 | Biodiesel production from animal fat and waste frying oil blends <i>E. Ramalho, J. Teixeira, P. C. Silva, A. Évora, A. Rocha A. Ferreira and A. Crispim</i> |
| A07 | Green City, Conditions for a Sustainable Urban Development. The Case of the Future Megacity of Casablanca (Morocco) <i>F. Amraoui and B. Elamrani</i> | A17 | Phytoremediation – as alternative method for environmental clean up by energy plants <i>Z.B. Romanowska-Duda, M. Grzesik and W. Pszczółkowski</i> |
| A08 | Creating shared value with eco-efficient and green chemical systems in ship operations and in ballast water management <i>K. Aravossis and Y. Pavlopoulou</i> | A18 | Available Techniques for Remediation of Polluted Soil <i>G. Dodontzidis and D. Tsiotas</i> |
| A09 | Ammonia accumulation in olive tree leaves due to a vicinal Industrial Hog Feeding Operation in Southern Greece <i>S. Liodakis, E. Efthymiou and I. P. Agiovlasis</i> | A19 | Green Chemistry Technologies for Pectin Analysis <i>L. Łękańska, D.G. Georgakopoulos and C.A. Georgiou</i> |
| A10 | Antibacterial effect of newly synthesized dithiocarbamate K-daap <i>V. Vuksanović and Z. Leka</i> | | |

THURSDAY, OCTOBER, 04

POSTER SESSION B (9:30 – 19:00)

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| B01 | Antimicrobial properties, antioxidant activity, genotoxic examination, cytotoxicity and phytochemical screening of species <i>Onosma aucherianum</i> <i>P.Z. Mašković, S. Solujić, M. Radojković, M. Cvijović, J. Mladenović, G.A. Đoković and V. Kurćubić</i> | B11 | Fate of soil water soluble Ca, Mg, K, Al, Fe and Mn due to vicinal intensive hog farming operation located in east Mediterranean <i>Ch. Michalopoulos and S. Liodakis</i> |
| B02 | Open mass cultures of marine microalgae for biodiesel production: laboratory approach to study species competition in mixed cultures <i>M. Mingazzini and M.T. Palumbo</i> | B12 | Bisphenol A Induced Pancreatic β cells Dysfunction <i>S. Dong, Y. Lin and X. Sun</i> |
| B03 | Application of Flashing-Light Emitting Diodes (LEDs) in microalgae photobioreactors: laboratory approach to study the role of blue light on the growth of <i>Pseudokirchneriella subcapitata</i> <i>M. Mingazzini, M.T. Palumbo, E. Zaglio, G. Gerosa and A. Kademoglou</i> | B13 | Efficient synthesis of dronic acids <i>R. Kovács, A. Grün, K. Koós, D. I. Nagy, S. Garadnay, Gy. Balogh, I. Greiner and Gy. Keglevich</i> |
| B04 | FTIR and FTNIR studies of the molecular changes induced by As on <i>Vicia faba</i> supported by two-dimensional correlation analysis <i>M. Mecozzi, E. Sturchio, P. Boccia and C. Meconi</i> | B14 | The essential oils in agriculture: a new perspective in agreement with the objective of EU legislation on sustainable use of pesticides (Directive 2009/128/EC) <i>E. Sturchio, L. Donnarumma, T. Annesi, E. Masciarelli and L. Casorri</i> |
| B05 | Coordination behavior of phenolic and benzoic hydroxyl groups in coordination of their Schiff bases with Zn(II) and Cd(II) ions <i>M. El-ajaily, A. Maihub, A. El-Torki, S. Ben-Saber and M. Elmajani</i> | B15 | Use of naturally occurred substances in polymerization processes <i>E.G.Andriotis and D.S. Achilias</i> |
| B06 | Biochars from different industrial byproducts for phenanthrene removal from aqueous solutions <i>S.E. Valili, I.D. Manariotis and H.K. Karapanagioti</i> | B16 | Industrial ecology perspectives for the capture conversion and utilization of diffuse or point source greenhouse gases <i>P.-Ph. Chappuis</i> |
| B07 | Synthesis, characterization and adsorptive evaluation of chitosan/graphite oxide composite for dye removal <i>N.E. Travlou, E.A. Deliyanni, N.K. Lazaridis and G.Z. Kyzas</i> | B17 | Chemical characterization of PM10 aerosol samples by the water soluble inorganic, organic and protein components <i>R. Tsitouridou, M. Mitrakas and D. Karagiannis</i> |
| B08 | A Novel Approach to the Synthesis of Benzazoles Bearing Sulfonamide Moiety in Water <i>H. Zali-Boeini</i> | B18 | Missing value estimation for PM10 concentration time series using artificial neural networks <i>K. P. Moustris, G. T. Proias, K. V. Koukouletsos, I. K. Larissi, P. T. Nastos and A. G. Paliatsos</i> |
| | | B19 | Green chemistry approaches to the desulfurization of oil or industrial effluents by polyoxometalates as nano catalyst <i>E. Rafiee, M. Joshaghani and S. Eavani</i> |
| | | B20 | Efficient electron transfer in the micelle surface: Selective oxidation of sulfide to sulfoxide using tetrakis (pyridine) silver(II) peroxydisulfate |

THURSDAY, OCTOBER, 04**POSTER SESSION B (9:30 – 19:00)**

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| B09 | Exploitation of malt spent rootlets, (MSR), for the removal of lactose from whey <i>M. Soupioni, S. Maragkou, A. Kampanos and M. Kanellaki</i> | B21 | <i>M. Bahdori, E. Rafiee and M. Joshaghani</i> The creation of new effective composite materials based on natural nano-bentonite minerals for waste water treatment of ore mining industry <i>Sh. Muzdybayeva, K. Musabekov, D. Aidarova and O. Gavrilenko</i> |
| B10 | Contribution to the Synthesis of Cephalotaxin <i>L. Quteishat, A. Panossian, E. Rose and F. Dumas</i> | B22 | Fired clay, an effective natural adsorbent for printing developer purifying <i>J. Kiurski, J. Ranogajec, I. Oros and D. Zorić</i> |

FRIDAY, OCTOBER, 05

POSTER SESSION C (9:30 – 13:30)

- C01 Why all post-graduate science masters students should know Web of knowledgeSM?
H. Jorge and O.J. Angel
- C02 Synthesis of benzimidazole bearing oxadiazole nucleous by green organic chemistry as anticancer agents
M. Rashid, A. Husain, R. Mishra, S. Anjum and S. Parveen
- C03 Agro-Waste Corn Cob Xylan Nanoparticles: Ester Prodrugs of 5-Aminosalicylic acid
S. Kumar and Y.S. Negi
- C04 DoE in action: Expeditious optimization of a Heck reaction leading to a key intermediate in synthesis of homoharringtonine
R. Alsalim and F. Dumas
- C05 One-step mild N-alkylation of chiral sulfonamides
X. Lv, D. Zhan, C. Dai and Q. Zeng
- C06 The role of aromatic Schiff bases in the dyes techniques
A. Maihub, K. Abuamer, M. El-ajaily, S. Ben-Saber and M. Elmajani
- C07 Ovalbumin/Cellulose Nanocrystals/Polyvinyl Alcohol Based Porous Scaffolds for Tissue Engineering Applications
A. Kumar, Y.S. Negi, V. Choudhary and N.K. Bhardwaj
- C08 Development of Stereoregular Heat-Resistant Functional Polymer by Free Radical Polymerization of Lactic Acid-Based Monomer
H. Tanaka, Y. Matsubara and M. Niwa
- C09 Adsorption kinetics and equilibria of azo dyes in single and binary component systems
N. Ayar and G. Atun
- C10 Biodiesel production by transesterification using homogenous and heterogeneous base catalyst in the presence of cosolvent
Z. Todorović, V. Veljković, J. Avramović, O. Stamenković and I. Stamenković
- C11 Recyclable CuO-Catalyzed Synthesis of 4(3H)-Quinazolinones
D. Zhan, T. Li, H. Wei, Y. Zhang and Q. Zeng
- C12 Transition-Metal-Free Cascade Aliphatic Substitution and C-N Coupling for Synthesis of Imidazobenzothiazines
X. Tu, J. Dong, X. Lv and Q. Zeng
- C13 Energy efficiency in the edible oil industry by use of life cycle thinking
M. Moeeni, Z. Aboushabab and K. Jahanifar
- C14 Analysis of sustainable recreational values in environmental conservation systems based on sustainable development methods by travel cost method
M. Makiabadi, A. Firoozabadi, S. Mohammadi and K. Jahanifar
- C15 Microwave-assisted oxidation of alcohols using tetrabutylammonium salts of W(VI) and Mo(VI)
M. Galica, W. Kasprzyk, S. Bednarz and D. Bogdał

