



WORKSHOP

From Molecules to Functionalized Materials



**Workshop "From Molecules to Functionalised Materials" 14-19 October 2013****Agenda****Tuesday, 15 October 2013****9.00 Registration****10.00 Welcoming address**
Prof. Dr. Luminita Silaghi-Dumitrescu
Prof. Dr. Evamarie Hey-Hawkins**Session I** (chair: Felix Windisch)**10.30 Guest lecture**
Ass. Prof. Violeta Ivanova Petropulos
(Faculty of Agriculture, "Goce Delčev" University, Štip, Macedonia)
*Advanced analytical techniques for wine analysis***11.00 Antonio Buzarevski**
(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)
*Spectroscopic studies of novel benzamidomethyl derivatives of methansulfonamide***11.20 Veton Haziri**
(Faculty of Natural Sciences, University of Prishtina, Prishtina, Kosovo)
*Electrochemical study of the complexation of metal ions onto the organic layers derived from electrochemical reduction of the "in situ" formed pyridine derivatives of diazonium salts***11.40-12.00 Coffee break****Session II** (chair: Noemi Deak)**12.00 Belinda Aliu**
(Faculty of Natural and Mathematical Sciences, State University of Tetovo, Tetovo, Macedonia)
Synthesis of new hydrazylidene chromane-2,4-dione with high cytostatic activity

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**12.20****Corina Stanciu***(Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania)**Nitrosative stress study on different types of oxyglobines***12.40****Ivana Vučković***(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)**Study on the biomonitoring of air pollution in Croatia by using moss samples, ICP-AES and AAS***13.00-14.30 Lunch break****Session III (chair: Arianit Reka)****14.30****Gentiana Hasani***(Faculty of Natural Sciences, University of Prishtina, Prishtina, Kosovo)**Synthesis and the use of derivatives of silanes as corrosion inhibitors***14.50****Biljana Mitrova***(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)**Electrochemical and spectroscopic study of glucose oxidase at liquid/liquid interface***15.10****Balazs Brem***(Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania)**Phenothiazine based dipyrromethanes acylation, and selective purification with dialkyl-tin complexation***15.30****Poster Flash Presentations (chair: Maja Jančovska)****Tanja Atanaskova***(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)**Electrochemical study of cytochrome C at three-phase electrodes***Tanja Dimitrova***(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)**Synthesis of N⁴-[(3Z)-1-acetyl-5-chloro-2-oxo-1,2-dihydro-3H-indol-3-ylidene]thiocarbonohydrazide*

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**Besarta Kastrati***(Faculty of Natural Sciences, University of Prishtina, Prishtina, Kosovo)**Assesing the complexing abillitys of some amino compounds troward lead and cadmium ions by using differential pulse polarography***Maja Janchovska***(Faculty of Medical Sciences, "Goce Delčev" University, Štip, Macedonia)**Analysis of organic acids in macedonian wines by capillary electrophoresis***Galaba Naumova***(Faculty of Medical Sciences, "Goce Delčev" University, Štip, Macedonia)**Synthesis and properties of novel coenzyme-Q derivatives obtained from coenzyme Q-0***Marjan Randjelovic***(Faculty of Science and Mathematics, University of Nis , Nis, Serbia)**Photocatalytic decomposition of selected organic dye with TiO₂ and m-modified TiO₂ catalysts***Milos Marinkovic***(Faculty of Science and Mathematics, University of Nis , Nis, Serbia)**The influence of various reaction parameters over alumina as suport with base promoter on the activity in the transesterification reaction of sunflower oil***Nikola Stojkovic***(Faculty of Science and Mathematics, University of Nis , Nis, Serbia)**Influence of different parameters on the activity of sulfated zirconia catalyst in the reaction of transesterification of sunflower oil*

16.30

Visit of the Faculty of Chemistry and Chemical Engineering and sightseeing of Cluj-Napoca

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**Friday, 18 October 2013****Session IV** (chair: Nikola Stojkovic)**9.00****Guest lecture****Ass. Prof. Sanja Kostadinovik***(Faculty of Agriculture, University "Goce Delčev", Štip, Macedonia)**In vitro antioxidant activity of cold pressed edible oils from Macedonia***9.30****Antonio Buzarevski***(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)**Some uses of the carboranyl moiety as a potential pharmacophore***9.50****Arianit Reka***(Faculty of Natural Sciences and Mathematics, State University of Tetovo, Tetovo, Macedonia)**Characterization of natural amorphous SiO₂***10.10****Miha Bukleski***(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)**Spectroscopic investigations of mononuclear deposition of 3-aminopropyltrimethoxysilane on a silica gel surface***10.30-11.00 Coffee break****Session V** (chair: Antonio Buzarevski)**11.00****Sepideh Banakhojasteh***(Faculty of Chemistry and Mineralogy, Universität Leipzig, Leipzig, Germany)**Synthesis of nanowire photocatalyst by using biotemplating (bacteriophage M13)***11.20****Deak Noemi***(Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania)**Theoretical investigation of metallylenes*

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**12.00 Poster Flash Presentations (chair: Corina Stanciu)****Marija Sterjova***(Faculty of Medical Sciences, "Goce Delčev" University, Štip, Macedonia)**The use of $^{90}\text{Sr}/^{90}\text{Y}$ for electrochemical separation of ^{90}Y from ^{90}Sr* **Viktorija Maksimova***(Faculty of Medical Sciences, "Goce Delčev" University, Štip, Macedonia)**Screening on antioxidant properties of ethanolic extracts of capsicum species by frap assay and prospective voltammetric methods***Elena Drakalska***(Faculty of Medical Sciences, "Goce Delčev" University, Štip, Macedonia)**Preparation and characterization of chitosan-alginate-pegilated calx[4]arenes nanoparticles for delivery of curcumin***Nenad Dojčinović***(Faculty of Science and Mathematics, University of Nis, Nis, Serbia)**Photo-fenton effect of polystyrene***Anup Kumar Adhikari***(Faculty of Chemistry and Mineralogy, Universität Leipzig, Leipzig, Germany)**1,2-diphosphaindazole: A promising building block for novel materials***Reka Mihaly***(Faculty of Chemistry and Chemical Engineering, University Babeş-Bolyai, Cluj-Napoca, Romania)**Synthesis and characterization of new Betti bases***Eva Molnar***(Faculty of Chemistry and Chemical Engineering, University Babeş-Bolyai, Cluj-Napoca, Romania)**Phenothiazine-based AB-type porphyrins
-Synthesis and photochemical bromination-***Angela Aleksovska***(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)**Thiol anchoring and catalysis of gold nanoparticles at the liquid interface of thin-organic-film-modified electrodes***13.00-14.30 Lunch Break**

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Session VI (chair: Miha Bukleski)

14.30

Felix Windisch

(Faculty of Chemistry and Mineralogy, Universität Leipzig, Leipzig, Germany)

Chiral 2-Ferrocenyl-[1,3,2]-oxazaphospholidine-2-oxides for Stereoselective ortho-Lithiations

14.50

Valdrin Jonuzaj

(Faculty of Natural Sciences, University of Prishtina, Prishtina, Kosovo)

Electrochemical study of some synthesized perylene derivatives

15.10

Nikolina Mitreska

(Faculty of Natural Sciences and Mathematics, "Ss. Cyril and Methodius" University, Skopje, Macedonia)

Electrochemistry of coenzymes Q

15.30-16.30 **Poster session, Coffee/Refreshments**

17.30

Award ceremony, Official closing of the Workshop

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