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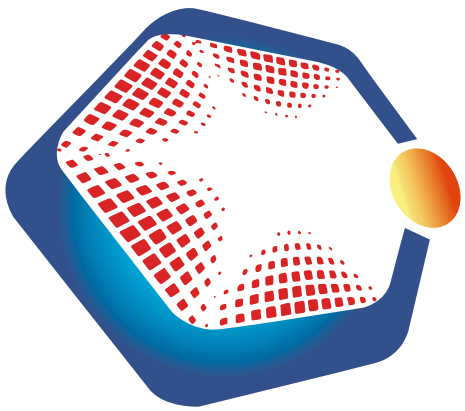
KOSOVO 2019

Joint Science Congress of Materials and Polymers

Book of Abstracts & Proceedings

12 - 14 September 2019 - Pristina / KOSOVO

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III. International ISCMP KOSOVO 2019
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BOOK of ABSTRACTS & PROCEEDINGS

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Organized by
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Society of Chemists and Technologists of Macedonia
Prishtina University
Tunisian Chemical Society
Materials Research Society of North Macedonia

WELCOME ADDRESS

Dear participants,

Remarkable advances have been achieved in the science of materials and polymer over the last fifty years. A high quality of life away from environmental destruction has been set as a goal for a high level of human welfare and a sustainable future. As a result, more novel and functional materials have been introduced into everyday life. It is expected by not only sectoral and academic stakeholders but also end users that this process will last longer, producing more beneficial results.

Therefore, it is the primary aim of this scholarly gathering to transform research- and innovationfocused scientists, financial success promoting production, and social responsibility-oriented industry into strong stakeholders. To this end, an academic event will be jointly organized by the Chemists Society (Turkey), Çanakkale Onsekiz Mart University (Turkey), Republic of Turkey Prime Ministry-Turkish Cooperation and Coordination Agency, Tunisian Chemical Society (Tunisia), Prishtina University (Kosovo), Materials Research Society of North Macedonia (Macedonia), Management Science University (Malaysia), Tetova University (Macedonia) and Society of Chemists and Technologists of Macedonia (Macedonia) of four different countries with sectoral supports.

It is believed that the assembly of participants from different countries will allow them to share their knowledge, to exchange views, and to form various partnerships. Along with the scientific activities, a comprehensive social activities calendar was produced by the organizing committee to allow for fruitful interactions.

Although it is, broadly speaking, a scientific congress, it is different from other congresses in terms of such aspects as follows;

(i) A collaboration protocol will be signed between the partners of the ICSMP following the completion of the Congress. Each partner will deliver a presentation on their strengths and interest in field of collaboration. Then, the partners will sign bilateral and multilateral agreements. (ii) Participants with posters will be allowed to deliver a four-minute presentation if they wish to and will be awarded a certificate of short oral presentation.

We would be more than happy to see you with us.

Assoc. Prof. Ayhan Oral

Prof. Jean-Francois Gerard

Chairpersons of of ISCMP 2019 Organizing Committee

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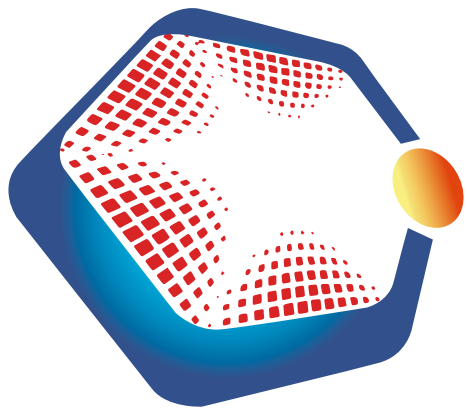
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Sorted alphabetically by last name



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ISCMP 2019 – SCIENTIFIC PROGRAM

September 11, 2019 (Wednesday)

Check-in to the Hotel (through the day)

September 12, 2019 (Thursday)

09:00-17:00	Registration	
10:00-11:00	Opening Remarks	
Section Chair	**Metin Hayri Acar**, Ph.D.	
11:00-11:30	**Bruno Ameduri**, *Ph.D.*	A Journey from the Synthesis of Functional 2-Trifluoromethacrylate Monomers to their Radical Copolymerizations with Vinylidene Fluoride, and Applications ***PLENARY SPEAKER***
11:30-11:50	**Jane Bogdan Bogdanov** *Ph.D.*	Approaches for Design of Systems for Detection of Explosives Using Aromatic and Spiroconjugated Amines
11:50-12:05	**Ana Holos** *Ph.D. Student*	Influence of Carbon Nanotubes on ATRP Kinetics
12:05-12:25	**Nazife Aslan** *Ph.D.*	Investigation of Lead-210 Adsorption on Multi-Walled Carbon Nano Tube Modified with Onno Type Schiff Bases
12:25-14:00	Lunch	
Section Chair	**Arianit Reka,** Ph.D.	
14:00-14:20	**Muhamad Nasir** *Ph.D.*	Synthesis and Property of Quantum Carbon Dot/Polyvinyl Alcohol Nanofiber by Electrospinning
14:20-14:40	**Avni Riza Berisha** *Ph.D.*	First Principles Details into The Grafting of Aryl Radicals onto The Free-Standing and Borophene/Ag(111) Surfaces
14:40-14:55	**Valbonë Veli Mehmeti** *Ph.D. Student*	Exploring the Use of Nanomaterials as Corrosion Inhibitors. The Case of Carboxylated Graphene Oxide
14:55-15:15	Coffee Break	
Section Chair	**Jean-Francois Gerard,** Ph.D.	
15:15-15:35	**Hasan Nazir** *Ph.D.*	In Silico Analysis to Highlight the Effect of N1303K Mutation on CFTR Protein
15:35-15:55	**Yavuz Emre Arslan** *Ph.D.*	3-Dimensional Bioscaffolds from Quince Seed Mucilage for Human Adipose-Derived Mesenchymal Stem Cells
15:55-16:15	**Bashkim Ziberi** *Ph.D.*	Use of Different Types and Environments of Smart Radiotherapy Biomaterials for Payload Release on Tumor Sites
16:15-16:35	**Güliz Ak** *Ph.D.*	Dual Drug Loaded Solid Lipid Nanoparticles for Glioblastoma Therapy via Intranasal Route: Development and Characterization of Nanoparticles
16:35-16:55	**Asdren Zajmi** *Ph.D.*	Effects of a Novel Chitosan-Loaded Bacteriophage Antibacterial Gel Against FusoBacterium Ulcerans for Tropical Skin Ulcer Treatment
16:55-17:15	**Mustafa Alpaslan** *Ph.D.*	Anticancer Effects of the Marine Extracts from Turkey
17:15-17:30	**Hilal Deniz Yılmaz** *M.Sc. Student*	Synthesis and Characterization of Si-Modified Quince Seed Mucilage based Bioscaffolds for Bone Tissue Engineering
17:30-19:00	***POSTER SESSIONS***	

September 13, 2019 (Friday)

Section Chair	**Bruno Ameduri**, Ph.D.	
09:00- 09:30	**Mathias Destarac** *Ph.D.*	Tailor-made polymers by aqueous RAFT polymerization ***(INVITED SPEAKER)***
09:30- 09:50	**Sıddıka Gamze Erzengin** *Ph.D.*	New-Generation Superplasticizers for Concrete Industry
09:50- 10:05	**Arta Veliu** *Ph.D. Student*	New Nonstandard Method for Measuring Physical Properties of Homemade Polymer Filaments for 3D FFD printing
10:05- 10:20	**Xheneta Zengo** *M.Sc. Student*	Reinforcement of Gypsum with Polypropylene Fibers
10:20-10:40	Coffee Break	
Section Chair	**Avni Riza Berisha,** Ph.D.	
10:40-11:10	**Traje Stafilov** *Ph.D.*	Assessing the Environmental Impact of Metal Production. Case Study: The Republic of North Macedonia ***(INVITED SPEAKER)***
11:10-11:30	**Ahmed Jashari** *Ph.D.*	Oxidation of Some Aldehydes to Acids with Jones Reagent Supported on The Diatomaceous Earth from The Republic of North Macedonia
11:30-11:50	**Arianit Reka** Ph.D.	Chemical, Mineralogical and Thermal Study of Rare Occurrence of Naturaly Occuring Tridymite from Allchar
11:50-12:05	**Gjani Hulaj** *M.Sc. Student*	New Monograph Methods for Analysis of Some Small Anions in Three Different Pharmaceutical Formulations Using Suppressed Ion Chromatography
12:05-12:20	**Omaima Anaya** *Ph.D. Student*	Poly(1,2,3-triazolium imide)s Obtained Through AA+BB Click Polyaddition
12:20-12:35	**Yalçın Coşkun** *Ph.D.*	The Effect of Rose Essential Oil Component Phenyl Ethyl Alcohol on The Time-Dependent Mass Loss of Poly(Lactic Acid)
12:35-14:00	Lunch	
Section Chair	**Jane Bogdan Bogdanov,** Ph.D.	
14:00-14:30	**Mahamadou Seydou** *Ph.D.*	Understanding at Atomic Scale the Patterning of Some Substrates with Molecular Nanodomains Using the Self-Assembly Method ***(INVITED SPEAKER)***
14:30-14:50	**Elif Karacan Yeldir** *Ph.D.*	Chitosan Microbeads for Encapsulation and Delivery of Essential Oils
14:50-15:10	**Jean-Francois Gerard** *Ph.D.*	Understanding Nanoscale Phenomena to Design High Performance Polymer-modified Bitumens
15:10-15:30	**Tuğba Güngör Ertuğral** *Ph.D.*	Functional Packaging Materials That Store Latent Heat in Food Safety
15:30-15:45	**Eda Keskin Uslu** *Ph.D. Student*	Rheological and Some Physicochemical Properties of Oleogels Prepared with Tallow and Partially Hydrolyzed Tallow Biomaterials
15:45-16:00	**Nora Limani Bektashi** *Ph.D. Student*	Characterization of Honey: Determination of Metal and Sugar Content
16:00-16:20	Coffee Break	
Section Chair	**Traje Stafilov,** Ph.D.	
16:20-16:35	**Halime Çevikbaş** *Ph.D. Student*	Investigation of Antibacretial and Antibiofilm Effects of Rose Essential Oil and Rose Absolute
16:35-16:55	**Tülay Tütenocaklı** *Ph.D.*	Salinity Threshold of Irrigation Water for Germination of Chickpea (*Cicer arietinum* L.)
16:55-17:15	**Mustafa Akin** *Ph.D. Student*	Edible Films Coating for Fruit Applications
17:15-17:30	**Fatlinda Rrahmani** *M.Sc. Student*	Green Pesticides Based on Cinnamic Acid Dispersed in Hemp Fibers and Pectin
17:30-19:00	***POSTER SESSIONS***	

September 14, 2019 (Saturday)

Section Chair	**Mathias Destarac,** Ph.D.	
09:00- 09:30	**Metin Hayri Acar** *Ph.D.*	Thermally Induced Shape Memory Materials ***(INVITED SPEAKER)***
09:30- 09:50	**Serap Titretir Duran** *Ph.D.*	Determination of Bisphenol A with Poly(p-Aminobenzoic Acid) Modified Gold Electrode by using Differential Pulse Voltammetry
09:50- 10:05	**Muammer Burç** *M.Sc. Student*	Voltammetric Determination of Diclofenac Sodium by using Poly(Beta-Cyclodextrin-co-2,4,6- Trimethylaniline) Modified Platinum Electrode
10:05-10:35	Coffee Break	
Section Chair	**Mahamadou Seydou,** Ph.D.	
10:35-11:05	**Vural Bütün** *Ph.D.*	Surface-Active and Stimuli-Responsive Polymers: Superb Sources for Various Polymeric Nanostructures and Applications ***(INVITED SPEAKER)***
11:05-11:20	**Veton Haziri** *Ph.D. Student*	Electrochemistry of Oxygen Bubbles on Conductive and Non-Conductive Solids
11:20-11:40	**Isa Degirmenci** *Ph.D.*	The Thiol-Ene Polymerization of Natural Monomers: A DFT Study
11:40-11:55	**Havva Yazar** *M.Sc. Student*	Production of High Purity Alginate from Cystoseira Barbata Algae Collected out of Black Sea and Investigation of Usability As Biomaterial
11:55-12:15	***CLOSING REMARKS***	
12:15-13:30	Lunch	
13:30-17:30	***SOCIAL ACTIVITY (PRIZREN EXCURSION)***	

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ORAL PRESENTATIONS

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Joint Science Congress of Materials and Polymers
12 – 14 September 2019 Pristina / KOSOVO

Salinity Threshold of Irrigation Water for Germination of Chickpea (*Cicer arietinum* L.)

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Chickpea (*Cicer arietinum* L.) is considered as animal feed in human nutrition in certain parts of the world. Chickpea is a good food source in terms of high protein content. Chickpea has the highest salt tolerance among legumes. As in all plants, chickpea can tolerate some degree of irrigation water salinity. Determining the response of the plant to salinity and increasing the tolerance level is of great importance for sustainable production. In order to meet the future needs, production should be increased with yield and quality. The economic value of product losses caused by environmental pressures is increasing day by day. Environmental conditions are largely difficult and costly to adjust to plants. Therefore, efforts to obtain tolerant plants by using genetic technologies are rapidly increasing. Increasing tolerance of plants to environmental pressures and especially irrigation water salt stress is one of the most important features for the varieties to be developed. The results of germination study are among the basic information needed in cell and tissue culture techniques, genetic engineering methods and classical breeding methods. Germinating of 9 chickpea variety, which are producing of Turkey, was tested performed for irrigation water salinity. Sodium Adsorption Ratio rate (SAR) of irrigation water was under 3. At the same time different electrical conductivity (0, 6, 8, 10, 12 and 16 dS/m) was used for germinating test. As a result of the study, the most tolerant varieties for irrigation water salinity are varieties 1 and 2. Sensitive varieties are determined as 7 and 9 varieties. Varieties 1 and 2 can be used as breeding material for tolerance to irrigation water salinity and drought stress.

Keywords: Chickpea, Irrigation Water Salinity, Electrical Conductivity, SAR

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