

3rd World Congress on New Technologies (NewTech'17)

The congress consists of:

ICNFA'17	8th International Conference on Nanotechnology: Fundamentals and Applications
ICEPR'17	7th International Conference on Environmental Pollution and Remediation
ICBB'17	3rd International Conference on Bioengineering and Biotechnology
ICERT'17	International Conference on Energy Research and Technology

Registrants from the four conferences are permitted, and even encouraged, to attend sessions from any of the four conferences.

Tuesday

June 6, 2017

3:00 PM - 5:00 PM **Registration**

Wednesday

June 7, 2017

Please click on a session title to view the details

8:00 PM Registrations	
ROOM 1	ROOM 2
9:00 AM Official Opening Dr. Andriy Voronov, North Dakota State University, USA	
9:15 AM Nanogenerators for Self-Powered Flexible Electronics and Piezotronics for Active Human-Machine Interfacing Keynote Lecture Dr. Zhong L. Wang, Georgia Tech, USA	9:15 AM Performance of Meteorological and Air Quality Modeling for PM2.5 Simulation, and Impact of Aerosol Direct Effect Keynote Lecture Dr. Akira Kondo, Queen's University, Canada
10:00 AM Electroanalysis with Modified Electrodes: from the Use of Simple Nanomaterials to Engineered Nano hybrids Keynote Lecture Dr. Luigi Falciola, Università degli Studi di Milano, Italy	10:00 AM Transcriptomics as a Tool to Monitor and Predict the Behaviour of the Microbiome in an Industrial Salt Waste Water Treatment Plant Keynote Lecture Dr. Gert-Jan Euserink, University of Groningen, Netherlands
10:45 AM Coffee Break	
11:05 AM Nanotechnology and Energy Session	11:05 AM Genetic Engineering and Commercial Biotechnology Session
12:10 AM Lunch	
1:10 PM Smart Nano-objects for Alteration of Lipid Bilayers SNAL Workshop PART 1	1:10 PM Direct Alcohol Fuel Cells as an Enabling Clean Energy Technology for Portable Devices and Transportation - From Fundamental to System Engineering Keynote Lecture Dr. Wen-Feng Lin, Loughborough University, UK
	1:55 PM Environmental Protection I Session
3:30 PM Coffee Break	
3:50 - 5:40 Smart Nano-objects for Alteration of Lipid Bilayers SNAL Workshop PART 2	3:50 - 5:45 Environmental Protection II Session

Thursday

June 8, 2017

Please click on a session title to view the details

ROOM 1	ROOM 2
<p>9:00 AM Design of Hydrophobic Nanoparticles for Spontaneous Translocation through Lipid Membranes Keynote Lecture Dr. Vladimir Baulin, Universitat Rovira i Virgili, Spain</p>	<p>9:00 AM Remediation of Organic Contaminants in Groundwater Keynote Lecture Dr. Bernard H. Kueper, Queen's University, Canada</p>
<p>9:45 AM Nano-scale Characterisation of Li Ion Migration Phenomena in Battery Materials Keynote Lecture Dr. Alexander Korsunsky, University of Oxford, UK</p>	<p>9:45 AM Emerging Pretreatment Technologies for Enhanced Bioenergy Production from Organic Waste Keynote Lecture Dr. Cigdem Eskicioglu, University of British Columbia, Canada</p>
<p>10:30 AM Coffee Break</p>	
<p>10:30 AM Poster Session Session</p>	
<p>11:55 PM Group Photo</p>	
<p>12:00 PM Lunch</p>	
<p>1:00 PM Biomedical Engineering Session</p>	<p>1:00 PM Water and Wastewater Pollution and Treatment Session</p>
<p>1:55 PM Modeling and Simulation Session</p>	<p>2:05 PM Environmental Risk Assessments Session</p>
<p>3:15 PM Coffee Break</p>	
<p>3:45 - 5:10 Nanomaterials, Nanodevices: Fabrication, Characterization and Application Session</p>	<p>3:45 - 4:45 Soil Pollution and Treatment Session</p>
<p>8:00 - 10:00 Closing Ceremony</p>	

Wednesday

June 7, 2017

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8:00 AM - 9:00 AM **Registration**

ROOM 1

9:00 AM - 9:15 AM **Official Opening of the Congress**

Dr. Andriy Voronov, North Dakota State University, USA

PARALLEL SESSION - ROOM 1

9:15 AM - 10:00 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Andriy Voronov

Nanogenerators for Self-Powered Flexible Electronics and Piezotronics for Active Human-Machine Interfacing

Dr. Zhong L. Wang, Georgia Tech, USA

10:00 AM - 10:45 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Andriy Voronov

Electroanalysis with Modified Electrodes: from the Use of Simple Nanomaterials to Engineered Nanohybrids

Dr. Luigi Falciola, Università degli Studi di Milano, Italy

PARALLEL SESSION - ROOM 2

9:15 AM - 10:00 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Wen-Feng Lin

Performance of Meteorological and Air Quality Modeling for PM2.5 Simulation, and Impact of Aerosol Direct Effect

Dr. Akira Kondo, Osaka University, Japan

10:00 AM - 10:45 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Wen-Feng Lin

Transcriptomics as a Tool to Monitor and Predict the Behaviour of the Microbiome in an Industrial Salt Waste Water Treatment Plant

Dr. Gert-Jan Euverink, University of Groningen, Netherlands

10:45 AM - 11:05 AM **COFFEE BREAK**

Wednesday

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PARALLEL SESSION - ROOM 1

11:05 AM - 12:30 PM **SESSION CHAIR:** Dr. Zhong L. Wang

Nanotechnology and Energy

ICNFA 135 **P3HT/CdSe/WS₂ Composites for Hybrid Photovoltaics: Structural and Morphological Properties**
11:05 - 11:20
Amanda Generosi, Marco Guaragno, T. Di Luccio, C. Borriello, A. Bruno and B. Paci
CNR, Italy

ICNFA 136 **Stability Enhancement in OPV: In-situ Studies of Plasmonic Devices**
11:20 - 11:35
Barbara Paci, Amanda Generosi, Emmanuel Stratakis, Emmanuel Kymakis
CNR, Italy

ICNFA 122 **Efficient Photodetector Based on Graphene Quantum Dots and Silicon Nanowires Junction**
11:35 - 11:50
Iuliana Mihalache, *Mihaela Kusko*, Antonio Radoi
IMT Bucharest, Romania

ICNFA 116 **Combined Effect of Surface Treatment and Surfactant on CNT Nanofluids Preparation**
11:50 - 12:10
Babita S.K. Sharma, Shipra Mital Gupta, Ankita Srivastava, Arinjay Kumar
Guru Gobind Singh Indraprastha University Dwarka, India

ICNFA 121 **Deposition of YBCO Nanoparticles on Graphene Using Matrix-assisted Pulsed Laser Evaporation**
12:10 - 12:30
Songlin Yang, Longyi Chen, Paul Ogilvie, and *Jin Zhang*
University of Western Ontario, Canada

PARALLEL SESSION - ROOM 2

11:05 AM - 12:05 PM **SESSION CHAIR:** Dr. Gert-Jan Euverink

Genetic Engineering and Commercial Biotechnology

ICBB 119 **Expression of pullulanase from *Thermus thermophilus* HB8 in *Pichia pastoris* and its characterization**
11:05 - 11:20
Mounia Akassou, Jean-François Lemay, Patrick Quessy, Denis Groleau
Université de Sherbrooke, Canada

ICBB 122 **Successful Genetic Transformation of Modern and Ancient Wheats (*Triticum L.*) spp.: Effect of Tissue Culture and Germplasm Ploidy**
11:20 - 11:35
Dmitry Miroshnichenko, Tatiana Savchenko, Alexander Pushin, Sergey Dolgov
Institute of Basic Biological Problems RAS, Russian Federation

ICBB 121 **Strain Development for Water Assimilable Organic Carbon Detection**
11:35 - 11:50
Xingding Zhou, Haibao Zhang
Ngee Ann Polytechnic, Singapore

ICBB 111 **Bio-Remediation Potential of Hydrolytic Bacteria Isolated from Hospital Liquid Biomedical Waste in Central Java**
11:50 - 12:05
Stalis Norma Ethica, Agus Sabdono
Universitas Muhammadiyah Semarang, Indonesia

12:10 PM - 1:10 PM LUNCH

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PARALLEL SESSION - ROOM 1

1:10 PM - 3:30 PM **SNAL WORKSHOP**

Smart Nano-objects for Alteration of Lipid Bilayers

- 1:10 - 1:20 **Opening - Dr. Vladimir Baulin** - Universitat Rovira i Virgili, Spain
- 1:20 - 1:35 **Nanocrystalline Apatites as Promising System for Solvent-Free Cryopreservation of Red Blood Cells**
Martin Stefanic - Jožef Stefan Institute, Lubljana, Slovenia
- 1:35 - 1:50 **Red Blood Cells' Shape Transitions Induced by Nanoparticles**
André Dias - Universitat Rovira i Virgili, Tarragona, Spain
- 1:50 - 2:05 **Molecular Dynamics Simulations of Continuum Scale Model Membranes Interacting with Antimicrobial Surfaces and Nanoparticles**
Berardo Mario Manzi - Global Orthopedics, Australia
- 2:05 - 2:20 **Structural Insight into the Mechanistic Process of Permeabilization into Model Membranes by an Antimicrobial Peptide**
Daniela Ciumac - University of Manchester, UK
- 2:20 - 2:35 **Nanostructure Self-assembly on Lipid Monolayers**
Marco Werner - Universitat Rovira i Virgili, Tarragona, Spain
- 3:35 - 2:50 **Incorporation of Polystyrene within Lipid Membrane Disrupts Bilayer's Main Phase Transition**
Mattia Morandi - Institut Charles Sadron, Strasbourg, France
- 2:50 - 3:05 **Interaction between Lipid Membrane and Polymer Structures**
Adrien Berthault - Universitat Rovira i Virgili, Tarragona, Spain
- 3:05 - 3:20 **Lytic Properties of a PH-Sensitive Polymer in Several Lipid Structures**
Monika Kluzek - Institut Charles Sadron, Strasbourg, France

3:30 PM - 3:50 PM **COFFEE BREAK**

- 3:50 - 4:05 **Pore Formation Induced by Amphiphilic Polymers**
Ankush Checkervarty - Leibniz Institute of Polymer Research, Dresden
- 4:05 - 4:20 **Synthesis and Characterisation of Smart Biomimetic Polymeric Materials for Drug Delivery**
Shiqi Wang - Imperial College London, UK
- 4:20 - 4:35 **Structural and Physical Properties of Hydroperoxidized Membranes**
Andre Shroeder - Institut Charles Sadron, Strasbourg, France
- 4:35 - 4:50 **How Wettable is the Skin Surface?**
Anna Sofia Tascini - Imperial College London, UK
- 4:50 - 5:05 **Structural Transition and Stability of DPPC lipid bilayers upon insertion of macromolecules**
Domenico Lombardo - Istituto per i Processi Chimico Fisici, Messina, Italy
- 5:05 - 5:20 **Nanoparticles of Various Degrees of Hydrophobicity Interacting with Lipid Membranes**
Chanfei Su - Leibniz Institute of Polymer Research, Dresden
- 5:20 - 5:35 **The Engineering and Applications of Biocompatible Polymers for Intracellular Delivery**
Alexander Chen - Cambridge University, UK
- 5:35 - 5:40 **Closing - Dr. Vladimir Baulin**, Universitat Rovira i Virgili, Spain

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PARALLEL SESSION - ROOM 2

1:10 PM - 1:55 PM **KEYNOTE LECTURE**

Session Chair
Dr. Cigdem Eskicioglu

Direct Alcohol Fuel Cells as an Enabling Clean Energy Technology for Portable Devices and Transportation - From Fundamental to System Engineering

Dr. Wen-Feng Lin, United Kingdom

1:55 PM - 3:25 PM **SESSION CHAIRS:** Dr. Chengci Chen

Environmental Protection I

ICEPR 162 **Serum perfluoroalkyl substances (PFAS) in schoolchildren from northern Norway: dietary impact**
1:55 - 2:10

*Maria Averina, Jan Brox, Sandra Huber, Anne-Sofie Furberg
University Hospital of North Norway, Norway*

ICERT 106 **Study on the Solar Tracking Control System Based on the Single Chip Microcomputer**
2:10 - 2:25

*Shihong Wu, Lulan Zhang
Shenyang Agricultural University, China*

ICEPR 120 **Acclimatization of *Thalassiosira pseudonana* Photosynthetic Membranes to Environmental Temperature Changes**
2:25 - 2:40

*Monika Bojko, Monika Olchawa-Pajor, Marek Chyc, Reimund Goss, Susann Schaller-Laudel, Dariusz Latowski
Jagiellonian University, Poland*

ICEPR 139 **Design of TiO_xN_y for Coating Technology**
2:40 - 2:55

*Anton Fikai, Denisa Fikai, Bogdan Stefan Vasile, Roxana Doina Trusca, Dragos Gudovan, Ovidiu Oprea, Motelica Ludmila, Ecaterina Andronescu
University Politehnica of Bucharest, Romania*

ICEPR 161 **Heavy Metals in Coastal Sediments and Soils Impacted by Anthropogenic Activities in Mauritius**
2:55 - 3:10

*Gireshsingh Mungra, Sunita Facknath, Bhanooduth Lalljee
University of Mauritius, Mauritius*

ICBB 108 **Evaluation of Culture Conditions for Allura Red Degradation under Solid State Fermentation**
3:10 - 3:25

*Felipe Mejía, Ana Cristina Jaramillo, Angelina Hormaza
Universidad Nacional de Colombia, Colombia*

3:30 PM - 3:50 PM **COFFEE BREAK**

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PARALLEL SESSION - ROOM 2

3:50 PM - 5:30 PM **SESSION CHAIR:** Dr. Bertrand Pourrut

Environmental Protection II

ICEPR 107 **A Cluster Analysis of USA Superfund Sites and Associated Cancer Risk**

3:50 - 4:10 **Raid Amin**, Arlene Nelson, Shannon McDougall
University of West Florida, USA

ICEPR 113 **Fenton like Method for Contaminated Groundwater**

4:10 - 4:30 **Analia Verónica Russo**, Silvia Elena Jacobo
Universidad de Buenos Aires & Instituto de Tecnologías y Ciencias de la Ingeniería “Hilario Fernández Long”, Argentina

ICEPR 134 **Conservation Tillage and Nitrogen Management for Sugarbeet Production**

4:30 - 4:50 **Chengci Chen**, Reza Keshavarz Afshar
Montana State University, USA

ICEPR 132 **Reliability and Uncertainty in Analysis of Rammed Earth Walls**

4:50 - 5:10 **Ehsan Kianfar**, Vahab Toufigh
Sharif University of Technology, Iran

ICEPR 167 **Protected Areas and Community Relationships in the Sub- Saharan Africa: A Case Study of Dwesa- Cwebe Nature Reserve in the Eastern Cape, South Africa**

Andisiwe Bango, Zanele Xelelo
Walter Sisulu University, South Africa

ICEPR 133 **Soil Carbon Dynamics in the Contaminated Mersey Estuarine Plain, UK: Implication for Carbon Sequestration**

Osim Enya, Chuxia Lin
University of Salford, UK

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PARALLEL SESSION - ROOM 1

9:00 AM - 9:45 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Andriy Voronov

Design of Hydrophobic Nanoparticles for Spontaneous Translocation through Lipid Membranes

Dr. Vladimir Baulin, Universitat Rovira i Virgili, Spain

9:45 AM - 10:30 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Andriy Voronov

Nano-scale Characterisation of Li Ion Migration Phenomena in Battery Materials

Dr. Alexander Korsunsky, University of Oxford, United Kingdom

PARALLEL SESSION - ROOM 2

9:00 AM - 9:45 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Akira Kondo

Remediation of Organic Contaminants in Groundwater

Dr. Bernard H. Kueper, Queen's University, Canada

9:45 AM - 10:30 AM **KEYNOTE LECTURE**

Session Chair:
Dr. Akira Kondo

Emerging Pretreatment Technologies for Enhanced Bioenergy Production from Organic Waste

Dr. Cigdem Eskicioglu, University of British Columbia, Canada

10:35 PM - 11:35 PM **COFFEE BREAK**

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PARALLEL SESSION - ROOM 1

10:35 AM - 11:55 PM

SESSION CHAIRS:

Dr. Alexander Korsunsky, Dr. Cigdem Eskicioglu & Dr. Domenico Lombardo

Poster Session

- ICNFA 131 Structure and Properties of Monolithic and Multilayer M-AISiN Superhard Films**
Dimitrios Chaliampalias, Evangelia Tarani, Dimitrios Karfaridis, Nikolaos Pliatsikas, Aikaterini Kamou, George Vourlias, *Efstathios Polychroniadis*
Aristotle University of Thessaloniki, Greece
- ICNFA 106 Adding Calcite and Nanocalcite to Improving the Plastic Properties of the Lean Clay**
Rasool Yazarloo, Fereshhte Aslani Katooli, *Mahdi Golestani*, Mahdi Asadi, Sadegh Ebrahimi
Shams institute of higher education, Iran
- ICNFA 105 The Effect of Nanokaolinite on the Compressibility and Atterberg Limit of the Silty Loess Soil in Golestan Province**
Rasool Yazarloo, *Javad Gholizadeh*, Abdolghader Amanzadeh, Seyed Aghil Mortazavi
Shams institute of higher education, Iran
- ICNFA 117 Collagen/Hydroxyapatite Composite Supports for Bone Tissue Engineering**
Roxana Tiplea, Madalina Georgiana Albu-Kaya, Maria Sonmez, Mihaela Ghica, *Denisa Ficai*, Anton Ficai, Ioana Lavinia Ardelean, Gudovan Dragos, Ecaterina Andronescu
University Politehnica of Bucharest, Romania
- ICNFA 127 Comparison of Micellar and Vesicle-Based Drug Delivery Systems**
Alyssa Amato, Clifford E. Larrabee Jr.
University of Cincinnati, USA
- ICNFA 112 Effect of Fe Nanoparticles of Seeds with Commercial Importance in Guanajuato, Mexico**
Edgar Vázquez-Núñez, Jessica Denisse Valle-García
University of Guanajuato, México
- ICEPR 125 Studies on Novel Zerovalent Iron Decorated Cellulose Nanofibers for Defluoridation**
Nalini Sankararamkrishnan, Shruti Mishra
Indian Institute of Technology, India
- ICEPR 110 Effect of Historical Zinc Processing on Soil: A Case Study in Southern Poland**
Katarzyna Sutkowska, *Leslaw Teper*, Aleš Vaněk, Tomasz Czech, Agnieszka Baran
University of Silesia, Poland
- ICEPR 114 Biodegradation of Polylactide Modified with Starch by Selected Species of Molds**
Anna Kowalczyk, Emilia Capała, Marek Chyc, Piotr Tyński, Waldemar Sadurski, Tadeusz Kowalski, *Dariusz Latowski*
Jagiellonian University, Poland
- ICEPR 143 Solubility and Lability of Copper in a Copper-Mine Tailings Treated with Two Organic Amendments**
Anaïs Charles, *Antoine Karam*, Léon-Étienne Parent
Laval University, Canada

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- ICEPR 160 Evaluation on The Drinking Water Quality Concerning Bacteria and Inorganic Nitrogen Using Ten Spring Water Samples**
Masayuki Goto, Takehiko Kaneko, Riho Endo, Reiko Takanashi, Hadjime Nakajima, Tadashi Furuhata
Wayo Women's University, Japan
-
- ICEPR 135 Phytoremediation of a Lead Contaminated Soil: Assisted Approach by EDTA and Native Bacteria**
Elisabetta Franchi, Roberto Bagatin, Francesca Pedron, Irene Rosellini, Meri Barbaferi, Gianniantonio Petruzzelli
Eni S.p.A., Italy
-
- ICEPR 141 Effect of Nanoparticles on Cadmium Accumulation in Sedge (Carex Vulpina L.)**
Radka Podlipná, Tereza Cyrusová, Tomáš Vaněk
Institute of Experimental Botany, Czech Republic
-
- ICEPR 144 Phytotoxicity and Biotransformation of Fenbendazole in Ribwort**
Barbora Szotáková, Lucie Raisová Stuchlíková, Lenka Skálová, Radka Podlipná
Charles University, Czech Republic
-
- ICEPR 142 Effect of Anthelmintics on Antioxidant Enzymes in Arabidopsis Thaliana**
Radka Podlipná, Eliška Syslová, Markéta Hanulíková, Lucie Raisová Stuchlíková, Barbora Szotáková, Lenka Skálová
Charles University, Czech Republic
-
- ICEPR 146 Biotransformation of Monepantel in Two Species Meadow Plants (Plantago Lanceolata and Campanula Rotundifolia)**
Lucie Raisová Stuchlíková, Radka Podlipná, Barbora Szotáková, Lenka Skálová
Charles University, Czech Republic
-
- ICEPR 149 Evaluation for Pollution Characteristics of Sincheon River and its Tributaries South Korea**
Yeong-Geum Son, Heung-Bin Im, Kang-Hyuck Lee, Jin-Guil Kim, Yun-Jung Lim, Jeong-in Choi, Ho-jung Lee, Jo-Gyo Oh
Gyeonggi-do Research Institute of Health & Environment, South Korea
-
- ICEPR 151 A Comparative Analysis of Commercial Household Composters**
Wanda Smoragiewicz,
Université du Québec à Montréal, Canada
-
- ICEPR 166 Ozone Injection in Soil Contaminated with Organic Compounds and Ions of Interest Evaluation**
Mauricio Gardinali, Raphael Hypolito, Ernesto Sumi
Universidade de São Paulo, Brazil
-
- ICBB 115 Characterization of the Plastid RNA Polymerase Complex**
Sangyool Lee, Sun Hyun Chang, Taeyoung Um, Geupil Jang, Ju-Kon Kim and Yang Do Choi
Seoul National University, South Korea
-

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ICBB 116 Constitutive Expression of Truncated MYC2 Affects Expression of Jasmonate-Responsive Genes

Sun Hyun Chang, Taeyoung Um, Sangyool Lee, Geupil Jang, Ju-Kon Kim and *Yang Do Choi*

Seoul National University, South Korea

ICBB 123 Functional characterization of RNA-binding protein isolated from Hot Pepper

Hyun Min Kim, Mi Jin Jeon, Seo Young Park, Sang Hoon Ma, *Young Hee Joung*

Chonnam National University, South Korea

ICBB 114 Collagen Based Hydrogels with Antimicrobial Activity

Gudovan Dragos, *Gudovan Iulia Alexandra*, Neacsu Ionela , Ene Vladimir Lucian, Fikai Denisa, Fikai Anton, Andronescu Ecaterina

University Politehnica of Bucharest & National Institute of Endocrinology, Romania

11:55 AM - 12:00 PM GROUP PHOTO

Please come to the registration desk to take the photo.

12:00 PM - 1:00 PM LUNCH

Thursday

June 8, 2017

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PARALLEL SESSION - ROOM 1

1:00 AM - 1:55 PM **SESSION CHAIR:** Dr. Stalis Norma Ethica

Biomedical Engineering

ICBB 102 **Influence of the Recirculation Zones on the Mass Transfer for a drug-eluting stent**

1:00 - 1:20 *Fatiha Chabi*, S. Champmartin, C. Sarraf,
AMVALOR, France

ICBB 103 **A Feasibility Study on Seasonal Changes in Wrist Pulse using Cumulative Periodogram**

1:20 - 1:35 *Jang-Han Bae*, Jaeuk U. Kim
Korea Institute of Oriental Medicine, South Korea

ICBB 120 **Human Upper Limb Mass-Inertial Characteristics via Computer Modelling**

1:35 - 1:55 *Gergana Nikolova*, Daniel Dantchev, Alexander Kazakoff
Bulgarian Academy of Sciences, Bulgaria

1:55 PM - 3:10 PM **SESSION CHAIR:** Dr. Prathna Thanjavur Chandrasekaran

Modeling and Simulation

ICNFA 110 **Effect of a Clathrate-Forming Counterion on Micellar Solubilization**

1:55 - 2:15 *Emily Ogle*, Clifford E. Larrabee Jr.
University of Cincinnati, USA

ICNFA 119 **Selectively Modified Porous Silicon Nanoparticles as Sonosensitizers of Therapeutic Ultrasound**

Andrey Sviridov, Konstantin Tamarov, Victor Timoshenko, Valery Andreev
M.V. Lomonosov Moscow State University, Russian Federation

ICNFA 107 **Influence of Interphase Properties on the Behavior of Wavy Carbon Nanotube Reinforced Composites**

Emre Köroğlu, Halit S. Türkmen
Istanbul Technical University, Turkey

ICNFA 103 **DFT Based Simulation Of H₂S Gas Sensing Properties of Doped Graphene**

3:50 - 3:10 Seba Sara Varghese, Sundaram Swaminathan, *Krishna Kumar Singh*, Vikas Mittal
BITS Pilani Dubai, United Arab Emirates

Thursday

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PARALLEL SESSION - ROOM 2

1:00 PM - 2:05 PM **SESSION CHAIR:** Dr. Bernard H. Kueper

Water and Wastewater Pollution and Treatment

ICEPR 138 **Graphene Oxide from Current Perspectives to Future Applications**

1:00 - 1:15 Sava Daniel, *Gudovan Dragos*, Gudovan Iulia Alexandra, Sonmez Maria, Fikai Anton, Andronescu Ecaterina

University Politehnica from Bucharest, Romania

ICEPR 147 **Investigation of Antimony in Natural Water and Leaching from Polyethylene Terephthalate (PET) Bottled Water**

1:15 - 1:35 *Mihyun Jo*, Taeyuel Kim, Sirim Choi, Jongpil Jung, Hee-il Song, Hyunjin Lee, Gyoungsu Park, Samhwa Lim, Yeonkook Sung, Jogyo Oh

Gyeonggi Province Institute of Health and Environment, South Korea

ICEPR 156 **Co-pyrolysis of Waste Biomass with Petroleum Sludge for Improved Energy Recovery**

1:35 - 1:50 Guangji Hu, *Jianbing Li*

University of Northern British Columbia, Canada

ICERT 104 **A Microbial Electrolysis Cell for Bio-Hydrogen Production and Wastewater Bioremediation**

1:50 - 2:05 Shmuel Rozenfeld, Hannan Teler, Alex Schechter, *Rivka Cahan*

Ariel University, Israel

2:05 PM - 3:15 PM **SESSION CHAIR:** Dr. Jianbing Li

Environmental Risk Assessments

ICEPR 123 **Use of comet assay as an efficient biomarker for plant biomonitoring and phytomanagement of contaminated sites**

2:05 - 2:20 *Pourrut Bertrand*, Boccia Priscilla, Sturchio Elena

Catholic University of Lille - Yncrea - ISA Lille, France

ICEPR 172 **The Combined Ecotoxicity of nTiO₂ and Coexisting Micropollutants in the Aquatic Ecosystem**

2:20 - 2:35 *Ildikó Fekete-Kertész*, Katalin Bus, Krisztina Várnai, Flóra Lukács, Mónika Molnár

Budapest University of Technology and Economics, Hungary

ICEPR 111 **Atmospheric Pollutants and the Occurrence of Bromeliads in Electric Power Distribution Network**

2:35 - 2:55 *Gleiciane Fernanda de Carvalho Blanc*, Bernardo Lipski, Juliano José da Silva Santos, Karime Dawidziak Piazzetta, Juliane de Melo Rodrigues, and Luciana Leal

Institutos Lactec, Brazil

ICEPR 145 **The Development of a Ranking Tool for the Selection of Abandoned Mine Sites for Rehabilitation**

2:55 - 3:15 *Herman Cornelissen*

Mintek, South Africa

3:15 PM - 3:45 PM **COFFEE BREAK**

Thursday

June 8, 2017

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PARALLEL SESSION - ROOM 1

3:45 AM - 5:10 PM **SESSION CHAIR:** Dr. Cliff Larrabee

Nanomaterials, Nanodevices: Fabrication, Characterization and Application

ICNFA 118 **Arsenic and Fluoride Removal by Iron Oxide and Iron Oxide/Alumina
Aanocomposites: A Comparison**
3:45 - 4:05 *Prathna Thanjavur Chandrasekaran, Saroj K. Sharma, Maria Kennedy*
UNESCO-IHE, Netherlands

ICNFA 120 **Bilayer Electrospun Nanofibre Structures to Improve Quality Factor in Air Filtration**
4:05 - 4:25 *Vinod Kadam, Yen Bach Truong, Ilias Louis Kyrtziz, Lijing Wang, Rajiv Padhye*
RMIT University, Australia

ICNFA 114 **Bioinspired Wettability-Controlled Surfaces with Gradient Micro- and Nanostructures**
4:25 - 4:40 *Yongmei Zheng, Beihang University*
Beihang University, China

ICNFA 134 **ESR for Controlling Magnetite Nanoparticles Focusing**
4:40 - 4:55 *Ryszard Krzyminiewski, Bernadeta Dobosz, Grzegorz Schroeder, Joanna Kurczewska*
Adam Mickiewicz University, Poland

ICNFA 140 **Synthesis and Characterization of Gold Nanoparticles-Antibody-Enzyme Conjugate
for Use in Influenza A Specific Nano-ELISA**
4:55 - 5:10 *Yasemin Budama-Kilinc, Rabia Cakir-Koc, Guncem Ozgun Eren*
Yildiz Technical University, Turkey

PARALLEL SESSION - ROOM 2

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3:45 AM - 4:45 PM **SESSION CHAIR:** Dr. Anton Fikai and Herman Cornelissen

Soil Pollution and Treatment

ICEPR 148 **Effects of Softwood Biochar on the Status of Nitrogen Species and Trace Elements in Soils**
3:45 - 4:00

Natalie Heaney, Mufidat Mamman, Hajara Tahir, Ahmed Al-Gharib, Chuxia Lin
University of Salford, United Kingdom

ICEPR 154 **Impact of Phragmites Australis Control on Utah Lake Water Quality**

4:00 - 4:15 Eddy Cadet, *Arthur Evensen*
Utah Valley University, USA

ICEPR 164 **Characterization of native plants with phytoremediation potential in Ancash - Peru respect to their capacity of propagation and accumulation of heavy metals**

Jose Chang Kee, María Gonzales, Olga Ponce, Lorena Ramirez, Carlos Flores, Vladimir León, Adelia Torres, Melissa Corpus, Raúl Loayza
Universidad Peruana Cayetano Heredia, Peru

ICEPR 158 **Metal Uptake and Accumulation by Mangrove Plant Species in Pattani Bay, Thailand**

4:30 - 4:45 *Weeradej Meekuirat*, Pungtip Kaewtubtim, Sumalee Seepom, John Pichtel
Mahidol University, Thailand

8:00 PM - 10:00 PM **Closing Ceremony**