

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 Nanohybrids 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 PM 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 AM 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 - 5:30 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**

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PARALLEL SESSION - ROOM 1

11:05 AM - 12:10 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 121 **Deposition of YBCO Nanoparticles on Graphene Using Matrix-assisted Pulsed Laser Evaporation**
11:50 - 12:10
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

PARALLEL SESSION - ROOM 1

Wednesday

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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, Ljubljana, 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

2:35 - 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

PARALLEL SESSION - ROOM 2

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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 Ficai, Denisa Ficai, 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**

PARALLEL SESSION - ROOM 2

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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

Thursday

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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 AM **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 Sankararamakrishnan, 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
-
- ICEPR 172 The Combined Ecotoxicity of nTiO₂ and Coexisting Micropollutants in the Aquatic Ecosystem**
Ildikó Fekete-Kertész, Katalin Bus, Krisztina Várnai, Flóra Lukács, Mónika Molnár
Budapest University of Technology and Economics, Hungary
-

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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

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 PM - 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

June 8, 2017

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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**

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**

Shmuel Rozenfeld, Hannan Teler, Alex Schechter, *Rivka Cahan*

Ariel University, Israel

2:05 PM - 3:00 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**

Pourrut Bertrand, Boccia Priscilla, Sturchio Elena

Catholic University of Lille - Yncrea - ISA Lille, France

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

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**

Herman Cornelissen

Mintek, South Africa

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

Thursday

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PARALLEL SESSION - ROOM 1

3:45 PM - 5:30 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 Kyrtzis, 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 Krzyminiowski, 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

ICNFA 116 **Combined Effect of Surface Treatment and Surfactant on CNT Nanofluids Preparation**
5:10 - 5:30
Babita S.K. Sharma, Shipra Mital Gupta, Ankita Srivastava, Arinjay Kumar
Guru Gobind Singh Indraprastha University Dwarka, India

Thursday

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PARALLEL SESSION - ROOM 2

3:45 PM - 4:45 PM **SESSION CHAIR:** Dr. Anton Ficai 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**

4:15 - 4:30

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 Meeinkuirt*, Pungtip Kaewtubtim, Sumalee Seepom, John Pichtel
Mahidol University, Thailand

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