Tentative Program

4th International Conference on
Physical and Theoretical Chemistry
September 18-19, 2017, Dublin, Ireland

Interactive Sessions  Keynote Lectures  Plenary Lectures  Workshops
Exhibitors  B2B Meetings

***For available speaker slots***
physicalchemistry@chemistryconference.org
Organizing Committee Members

- Martyn Pemble
  Stokes Professor
  Tyndall National Institute and University College Cork, Ireland

- Sakari Kulmala
  Professor
  Aalto University
  Finland

- Venelin Enchev
  Professor
  Bulgarian Academy of Science
  Bulgaria

- Daniel Ayuk Mbi Egbe
  Senior Scientist
  Johannes Kepler University of Linz
  Austria

- Werner PAULUS
  University of Montpellier
  France

- Werner Lottermoser
  Professor
  University of Salzburg
  Austria

- Nina D. Dimitrova
  Plovdiv University
  Bulgaria

- Wai-Yim Ching
  University of Missouri-Kansas City,
  USA

- Per Jensen
  University of Wuppertal
  Germany

- Stefan Haacke
  Strasbourg University
  France

- Franziska Gröhn
  University Erlangen-Nürnberg
  Germany

- Werner PAULUS
  University of Montpellier
  France

Keynote Speakers
Keynote Speakers

Keynote Speech on

**Self-Assembly as Key to a Light-Responsive Shape and Function of Nano-Objects**

Franziska Gröhn
University Erlangen-Nürnberg
Germany

Keynote Speech on

**Excited State Lifetimes of Isolated Iron(II) Complexes and Electron Injection into TiO2 Film**

Stefan Haacke
University of Strasbourg, France

**Note: Keynote Slots Available**
Abnormal deformation behavior in a super-soft material: amorphous Zeolite imidazolate framework (a-ZIF)

Wai-Yim Ching
University of Missouri-Kansas City, USA

Making headway in understanding the rotation-vibration spectrum of protonated methane CH5+ - an extremely flexible molecule

Per Jensen
University of Wuppertal, Germany

Non-stoichiometric transition metal oxides: on the interplay of structural complexity, electronic correlations and phonon assisted oxygen ion diffusion

Werner PAULUS
University of Montpellier, France

** Note: Keynote Slots Available**
Featured Speaker Presentations

Title: Abnormal deformation behavior in a super-soft material: amorphous zeolite imidazolate framework (a-zif)
Wai-Yim Ching, University of Missouri-Kansas City

Title: Homogeneous nucleation of solid, liquid and glass phases close to revolution
Robert F. Tournier, Université Grenoble Alpes

Title: Excited state lifetimes of isolated iron(ii) complexes and electron injection into tio2 film
Stefan Haacke, Université de Strasbourg

Title: Soft based hypersonic phononics
George Fytas, Max Planck Institute for Polymer Research

Title: Non-stoichiometric transition metal oxides: on the interplay of structural complexity, electronic correlations and phonon assisted oxygen ion diffusion
Werner PAULUS, University of Montpellier

Title: Making headway in understanding the rotation-vibration spectrum of protonated methane CH5+ - an extremely flexible molecule
Per Jensen, University of Wuppertal

Title: Neutron scattering study of super cooled water confined in mesoporous silicas, MCM-41 and SBA-16: role of component pores and their size
Shigeharu Kittaka, Okayama University of Science

Title: Experimental and theoretical studies of coordination fullerene polymers conductivity
Krzysztof Winkler, University of Bialystok

Title: Anion and cation diffusion in complex oxides
Manfred Martin, RWTH Aachen University

Title: The role of anharmonicity in the confinement effect in zeolites: Structure, spectroscopy and adsorption free energy of ethanol in h-zsm-5
Roger Rousseau, Pacific Northwest National Laboratory

Title: Biomimetic membranes for multi-redox center proteins
Renate L.C. Naumann, University of Bayreuth

Title: Why is gas phase photolysis of 2-nitrophenol a significant source of OH in the polluted atmosphere?
Lei Zhu, Wadsworth Center and University at Albany

Title: Molecular design strategies for task-specific solvent technologies
Vassiliki-Alexandra Glezakou, Pacific Northwest National Laboratory

Title: In situ hard x-ray photoelectron study of o2 and h2o adsorption on pt nanoparticles
Masaharu Oshima, University of Tokyo

Title: Time-resolved compressibility change of reaction intermediates of photosensor protein; pixd
Masahide Terazima, Kyoto University

Title: Theoretical study of the chemical reactions by the combination of quantum mechanical and molecular dynamics methods
Toshiaki Matsubara, Kanagawa University

Title: Sum-frequency generation from chiral bisoxazoline metal complexes: experiments and dft calculations
Alex BOEGLIN, Université de Strasbourg

Title: Thermodynamics of the molecular complex formation reactions between amino acids, peptides and 18-crown-6 in aqueous-organic mixed solvents
Tatiana Usacheva, Ivanovo State University of Chemistry and Technology

Title: Thermodynamics of the acid-base equilibria of 3Gly and complex formation reactions with Cu(II) in water-ethanol and water-dimethylsulfoxide solvents
Pham Thi Lan, Ivanovo State University of Chemistry and Technology

Title: Study of the atmospheric degradation or malonic acid diesters in gas phase
Diana Henao, Universidad Nacional de Córdoba

** Note: Speaker Slots Available **
Title: Enhancing cycling durability of Li-ion batteries with hierarchical structured silicon-graphene hybrid anodes  
Melanie J. Loveridge, Warwick University

Title: Unidirectional p-electron rotations in low-symmetry aromatic ring molecules by using two linearly polarized stationary lasers  
Yuichi Fujimura, Tohoku University

Title: How can we control the crystallisation of molybdenum in nuclear waste glasses?  
Konstantinos Konstantinou, University College London

Title: Isolation of determined component of the empirical dependency of binary solutions physicochemical properties  
M. A. Preobrazhenskii

Title: Influence of electric field/charge on physicochemical properties of supported nanoparticles  
Maxim V. Grishin, Semenov Institute of Chemical Physics

Title: Sorption of Benzotriazole derivatives under the conditions of reversed phase mode of high performance liquid chromatography (RP HPLC)  
Sarah A. Dzhabieva, Samara National Research University named after Academician S.P. Korolev

Title: Recent advances in quantum monte carlo: Applications to lithium ion – stockmayer clusters, hydrogen isotopic separation, and the investigation of excited state manifolds  
Emanuele Curotto, Arcadia University

Title: Chemical reaction paths: A new perspective for understanding the physics and chemistry of reaction mechanism  
Bijoy Dey, Claflin University

Title: Matrix isolation infrared spectroscopy and structures of weak (O-H···π) and strongly bound (O-H···O) binary hydrogen bonded complexes  
Pujarini Banerjee, Indian Association for the Cultivation of Science, Kolkata

Title: A computational investigation of the photochemical oxaziridine conversion process of some experimentally analyzed small-chain conjugated nitrones  
Anjan Chattopadhyay, BITS-PILANI

Title: Kinetic theory approach to cancer-immune system competition: From cell scale to tissue scale  
Annie Lemarchand, Université Pierre et Marie Curie

Title: Self-assembly as key to a light-responsive shape and function of nano-objects  
Franziska Gröhn, University Erlangen-Nürnberg

Title: Gaining insights into relaxation processes in single molecule magnets  
Annie K. Powell, Karlsruhe Institute of Technology

Title: What is hidden behind a phase diagram?  
Fabienne Berthier, Univ. Paris Sud-CNRS

Title: Novel hybrid carbon materials and their applications: prognostic simulation based on hierarchical multiscale modeling  
Olga Glukhova, Saratov State University

Title: Single-molecule interfacial electron transfer dynamics  
H. Peter Lu, Bowling Green State University

Title: Gold nanoparticles characterization by scattering correlation spectroscopy  
Nadia Djaker, Université Paris 13

Title: Water interaction and dissociation on the (0001) hematite surface: a DFT+U approach  
Fabio R. Negreiros, University of ABC

Title: The golden doxorubicin: A tunable design of gold (III)-Doxorubicin complex – PEGylated nanocarrier for oncological  
Jolanda Spadavecchia, Université Paris 13

Title: Characterization of protein absorption on gold nanoparticles by scattering correlation spectroscopy  
Hanane Moustaoui, Université Paris 13

** Note: Speaker Slots Available **
Title: Regular variation of thermodynamic properties of binary solutions, by a common solvents and substances in the homologous series
Suntsov Jury, Voronezh Pedagogical University

Title: Photo-excited dynamics at nanoscale interfaces
Run Long, Beijing Normal University

Title: Controlling structural transitions in metallic nanoparticles
Francesca Baletto, King’s College London

Title: A computational approach to the kinetics and dynamics of energy flow in large gas volumes
A.J. McCaffery, University of Sussex

Title: Complex magnetic phases and photo-enhanced ferromagnetism in nano-sized core-shell Prussian blue analogue cubes
Wen-Hsien Li, National Central University

Title: Magnetism and spin transport in transition metal organometallic clusters
Ivan Štich, Slovak Academy of Sciences

Title: Palladium oxide thin films for oxidizing gas detection
Oleg G Kuzminykh, Voronezh State University

Title: Amplified spontaneous emission, gain, lasing and confined acoustic phonons in CdSe/CdS core-shell heterostructures
Roman Krahne, Italian Institute of Technology

Title: A peculiar light induced concentration patterns in transparent polymer solution
George Fytas, Max Planck Institute for Polymer Research

Title: Temperature dependent spectral features of room temperature ionic liquids: aromatic vs. nonaromatic
Hideaki Shirota, Chiba University

Title: Simulation of DBS, DBS-COOH and DBS-CONHNH2 as Hydrogelators
Dafña Knani, ORT Braude College

Title: DOX: A new computational protocol for accurate prediction of the protein-ligand binding structures
Jian Wan, Central China Normal University

Title: New tools for Chemistry: Dynamic imaging of molecules using femtosecond and attosecond XUV high-order harmonics
Raluca Cireasa, Universite Paris Sud

Title: Explicitly-correlated coupled-cluster theory for static and dynamic polarizabilities
Denis Bokhan, Moscow Lomonosov State University

Title: Nanomaterials, Nanocrystallinity, Supracrystals
Marie Paule Pileni, CEA/IRAMIS

Title: Topotactic synthesis of mixed-anion oxide epitaxial thin films
Akira Chikamatsu, The University of Tokyo

Title: Electron/hole transformation between two atomic layers
Junrong Zheng, Peking University

Title: On the structure and tribological effect of interfacial water between a graphite surface and metallic or semiconducting counter bodies
Arnaud Caron, KoreaTech - Korea University of Technology and Education

Title: Ab initio theory for computing sum frequency generation spectra at aqueous interfaces
Tatsuhiko Ohto, Osaka University

Title: Correlations between structural and optical properties of peroxy bridges from first principles
Blaž Winkler, University of Nova Gorica

Title: Determination of the isotopic composition of aqueous solutions radiospectroscopic method
Rostislav Y Gerasimov, The Bauman Moscow State Technical University

** Note: Speaker Slots Available **
Title: Furious and Tranquil Radicals: A computational study of sulfur-centred radical chemistry
Isa Degirmenci, Ondokuz Mayis University

Title: Coupling of living cells with external electrical stimulation
Ashutosh Kumar Dubey, Indian Institute of Technology

Title: Inversion of the lowest singlet excited states induced by the presence of the silicon atom in a styryl-carbazole derivative
Karolina Rachuta, Adam Mickiewicz University

Title: Photoinduced electron transfer through silicon bridge: the source for blue-green emission
Malgorzata Bayda, Adam Mickiewicz University

Title: Excited-state symmetry breaking of linear quadrupolar chromophores: A transient absorption study
Nadia Dozova, PSL Research University

Title: Thermodynamic functions of mixing for liquid alloys in gallium – lead system
Alexander M Samoylov, Voronezh State University

Title: Fundamental lows of nature: The exact analytical solution to the problem of dependency of chemical bond energy on bond’s length
Adel R. Iakubov, Irkutsk State University

Title: Towards probability-free microscopic foundation of classical thermodynamics
Anatoly Yu. Zakharov, Yaroslav-the-Wise Novgorod State University

Title: Modelling of electronic spectra of matrix-isolated atoms: Comparison of theoretical approaches
Dmitry S Bezrukov, Skolkovo Institute of Science and Technology

Title: Mechanistic insight towards the activation of aerobic oxidative coupling reactions of alcohols on nanoporous gold
Wilke Dononelli, University of Oldenburg

Title: Impurities of finely dispersed gold: the dependence of the content on the particle size
Alexey Amdur, URSMU

Title: Recent advances in theoretical spectroscopy from ab initio molecular dynamics
Sandra Luber, University of Zurich

Title: From geometric optics to plants: the eikonal equation for buckling
Sergei Nечаев, Interdisciplinary Scientific Center J.-V. Poncelet

Title: Alkylammonium-based protic ionic liquids: an ab initio investigation
Lyubov P. Safonova, Ivanovo State University of Chemistry and Technology

Title: Interactions between sodium fire aerosols and fission products- a theoretical chemistry and experimental approach
Ankita Jadon, University of Lille 1

Title: Computational study on several asymmetric reactions promoted by amine catalysts
Yan Li, Dalian University of Technology

Title: Electrical potential near hydrated solid surface by ph spin probes and labels
Elena G. Kovaleva, Ural Federal University

Title: Reactive surface sites at metal oxide nanoparticles: from fundamental studies to potential medical application
Slavica Stankic, INSP-CNRS Paris

Title: Polymer-brush lubrication
Torsten Kreer, Leibniz-Institut fuer Polymerforschung Dresden

** Note: Speaker Slots Available **
Title: Phase equilibrium of the melt-vapor in the tellurium-sulfur system
Valery N. Volodin, Institute of Metallurgy and Ore Benefication

Title: An embedding technique based on a strategic use of atomic pseudo potentials
Yannick Carissan, Aix-Marseille University

Title: Engineering optical activity in zinc oxide nanorod arrays for enhanced photoelectrochemical applications
Jan Kegel, University College Cork

Title: Electronic levels of excess electrons in liquid water
Francesco Ambrosio, Ecole Polytechnique Fédérale de Lausanne

Title: The electrochemical and quantum theoretical studies of 4-picolyamine for mild steel in HCl
Birgül YAZICI, Çukurova University

** Note: Speaker Slots Available **
Conference Highlights

- Physical Chemistry: A Molecular Approach
- Physical Chemistry of Macromolecules
- Theoretical and Computational Chemistry
- Chemical kinetics
- Chemical physics
- Radiation Chemistry
- Femtochemistry
- Geochemistry
- Astrochemistry
- Photochemistry
- Solid-state chemistry
- Spectroscopy
- Surface science
- Quantum Chemistry
- Thermochemistry
- Biophysical chemistry
- Physical Organic Chemistry

For detailed sessions, please visit: http://physicalchemistry.conferenceseries.com/call-for-abstracts.php
Submit your abstract online at: http://physicalchemistry.conferenceseries.com/abstract-submission.php
Register online: http://physicalchemistry.conferenceseries.com/registration.php
Speaker Benefits at Physical Chemistry 2017

- Career Guidance Workshops to the Graduates, Doctorates and Post-Doctoral Fellows
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- Speaker and Abstract pages created in Google on your name would get worldwide acknowledgment to your research profile
- Opportunity to get sponsorship for your projects
- Opportunity to Chair/Co-chair a session of your interest
- Opportunity to moderate the conference
- Accepted Abstracts will be published in respective supporting journals, each abstract will be labelled with a DOI provided by Cross Ref.
- Speaker will be felicitated with Certificate
- Best Poster Competitions and Young Researcher Competitions
- B2B meetings
- All attendees can avail 21 CPD Credits (Continuing Professional Development)
- Certificate Accreditation by the International Organizing Committee (IOCM)
- Abstracts will be published in conference souvenir & international journals
- We will include your University/Institution logo on the conference banners, books and in the conference website
- Can play the role of Honourable guest at the conference
- Speaker name and photograph will be displayed in conference website

Meeting Hall: Crowne Plaza Dublin Airport
Park Northwood, Northwood Ave
Dublin 9, Ireland

Accommodation: Holiday Inn Express
Park Northwood, Northwood Ave
Dublin 9, Ireland
Glimpses of Chemistry Conferences
Dublin Attractions

Aqua Zone
Irish whiskey Museum
Science Gallery
St. Stephens Green Shopping Centre
Phonix Park
St. Patricks Cathedral
Guinness Storehouse
Powerscourt Waterfall
Dublina
45th OMICS International Conference

Scientific Program

Annual Conference and Expo on

Biomaterials

March 14-16, 2016   London, UK
### Keynote Forum

**Introduction**

**Title: Bone graft substitute materials**

**Gordon Blunn**, University College London, UK

**Title: Electron microscopic recording of ATP-induced myosin head power and recovery strokes in hydrated muscle myosin filaments using a film-sealed hydration chamber**

**Haruo Sugi**, Teikyo University, Japan

**Coffee Break**

### Sessions: Track 2: Polymer Biomaterials

- **Track 5: Biomaterials Applications**
- **Track 17: 3D Printing of Biomaterials**

**Session Chair: Andrew Lewis**, Biocompatibles UK Ltd, UK

**Session Co-Chair: George Youssef**, San Diego State University, USA

- **Title: Particulate embolization agents: Impact of biomaterial physicochemical properties on clinical performance**
  **Andrew Lewis**, Biocompatibles UK Ltd, UK

- **Title: Uncovering the fundamentals behavior of annulus fibrosus using composite mechanics**
  **George Youssef**, San Diego State University, USA

- **Title: A comparison of arterial distribution of bead prototypes in a rabbit renal artery embolization model**
  **Hugh Kilpatrick**, Biocompatibles UK Ltd, UK

- **Title: Profiling physiochemical properties of drug-eluting bead emulsions: In vitro design evaluation and clinical application**
  **Marcus Caine**, Biocompatibles UK Ltd, UK

- **Title: Folate-conjugated star branched PLLA-b-(PEG)$_2$ copolymer as nanocarrier for targeted delivery**
  **Ing Hong Ooi**, International Medical University, Malaysia

**Lunch Break**

**Title: Thermoresponsive triblock copolymers as injectable gels**

**Theoni K Georgiou**, Imperial College London, UK

**Title: Encapsulated mesenchymal stem cells promote local neoangiogenesis by a paracrine effect**

**Andrew Lewis**, Biocompatibles UK Ltd, UK

**Title: Novel drug-eluting beads (DEBs) containing tyrosine kinase inhibitors (TKIs) for cancer therapy**

**Alice Hagen**, Biocompatibles UK Ltd, UK

**Sessions: Track 1: Advanced Biomaterials**

- **Track 3: Dental Biomaterials**
- **Track 8: Biomaterials Engineering**
- **Track 9: Biomaterials: Synthesis and Characterization**
- **Track 13: Biomaterials in Biological Engineering**

**Session Chair: Stella W Pang**, City University of Hong Kong, Hong Kong

**Title: Promoting cell migration in confined channels with bends**

**Stella W Pang**, City University of Hong Kong, Hong Kong

**Coffee Break**
Title: Biocompatibility of new fiber-reinforced composite materials for craniofacial bone reconstruction
Horatiu Rotaru, Iuliu Hatieganu University of Medicine and Pharmacy, Romania

Title: Human embryonic kidney cell behaviour on a new β-type titanium alloy by Alamar Blue assay
Mehdi Razavi, Brunel University, UK

Title: From muscle balancing to capsular balancing MAASH technique for total hip arthroplasty (THA)
Felipe G. Delgado Lopez, Hospital Sant Celoni, Spain

Panel Discussion

Day 2
Tuesday, March 15, 2016
Madison

Sessions: Track 7: Biomaterials and Nanotechnology
Track 10: Tissue Engineering and Regenerative Medicine

Session Chair: Anand Ramamurthi, Cleveland Clinic, USA
Session Co-Chair: Dora Alicia Cortes Hernandez, CINVESTAV-Mexico, USA

Title: Cathepsin-K antibody-conjugated pro-matrix regenerative nanoparticles for abdominal aortic aneurysm repair
Anand Ramamurthi, Cleveland Clinic, USA

Title: Synthesis and characterization of MnGaFe$_2$O$_4$ magnetic nanoparticles for their potential use in biomedical applications
Dora Alicia Cortes Hernandez, CINVESTAV-Mexico, USA

Coffee Break

Title: Novel bioresorbable scaffolds for 3D cell culture and tissue repair
Donald A Wellings, SpheriTech Ltd, UK

Title: Innovative substituted hydroxyapatites and collagen scaffolds for enhanced adhesion, growth and proliferation of human osteoblasts in vitro
Maria Tomoaia Cotisel, Babes-Bolyai University, Romania

Title: Production of a new bio-inspired neuro-regeneration structure
Esra Altun, Marmara University, Turkey

Title: Dynamics of natural killer cells cytotoxicity in microwell arrays with connecting channels
Xu Yuanhao, City University of Hong Kong, Hong Kong

Lunch Break

Title: Electrospinning of PVDF aligned fibers and their potential in neural tissue engineering
Luanda Chaves Vieira Lins, National Institute of Applied Sciences, France

Title: The role of nanotopography on the design of an optimum nanohydroxyapatite/polyhedral oligomeric silsesquioxane poly(carbonate-urea) urethane nanocomposite scaffold for bone tissue engineering
Shima Salmasi, University College London, UK

Title: Emergent design of an hierarchically structured bio-intelligent scaffold for vasculogenesis and accelerated healing
Julian F Dye, University of Oxford, UK

Sessions: Track 4: Properties of Biomaterials
Track 11: Biomaterials for Therapeutic and Investigative Delivery
Track 12: Biomaterials in Delivery Systems

Session Chair: Xiaohui Zhang, Lehigh University, USA

Title: Biomechanical characterization of Von Willebrand factor – A giant multimeric plasma protein
Xiaohui Zhang, Lehigh University, USA

Title: In vitro methods for evaluation of novel radiopaque embolic low properties
Marcus Caine, Biocompatibles UK Ltd, UK

Title: Novel method for the evaluation of drug release from drug-eluting beads
Tanya Sian Swaine, Biocompatibles UK Ltd, UK

Title: Synthesis and characterization of Y$_2$O$_3$: Tm$^{3+}$,Yb$^{3+}$ upconversion nanoparticles for bioimaging
Adrine Malek Khachatourian, KTH - Royal Institute of Technology, Sweden

Coffee Break

Poster Presentations @ Madison
| BM-01 | Title: Thermo-responsive ABC triblock terpolymers for 3D printing  
Anna Constantinou, Imperial College London, UK |
| BM-02 | Title: Strategy for polymer network preparation and ensuring intramolecular conditions for further coupling applications  
Aurica P Chiriac, Petru Poni Institute of Macromolecular Chemistry, Romania |
| BM-03 | Title: Preparation of a new drug delivery carrier based on hydsgels of hyaluronic acid crosslinked with poly(itaconic anhydride-co-3, 9-divinyl-2, 4, 8, 10-dioxaaspiro (5.5) undecane) copolymers  
Aurica P Chiriac, Petru Poni Institute of Macromolecular Chemistry, Romania |
| BM-04 | Title: Silibinin-conjugated graphene and hyaluronic acid platforms for osteosarcoma targeting  
Giulia Neri, University of Messina, Italy |
| BM-05 | Title: Densified titanium implants embedded with BMP-2  
Hyun-Do Jung, Korea Institute of Industrial Technology, Korea |
| BM-06 | Title: Functionaized copolymer matrix based on poly(maleic anhydride-co-3, 9-divinyl-2, 4, 8, 10-tetraoxaspiro (5.5) undecane) with potential biomedical applications  
Iordana Neamtu, Petru Poni Institute of Macromolecular Chemistry, Romania |
| BM-07 | Title: Production of the polyurethane/zeolite nanocomposites with electrospinning method for biomedical engineering applications  
Mehmet Onur Aydogdu, Marmara University, Turkey |
| BM-08 | Title: Biocompatible surgical meshes from de-cellularized amniotic membrane and polyurethane  
Yabin Zhu, Ningbo University, China |
| BM-09 | Title: Dynamic freeze casting using titanium (Ti) powders for producing porous Ti  
Hyun-Do Jung, Korea Institute of Industrial Technology, Korea |
| BM-10 | Title: Osteogenic potential of ALLOB® combined with biocermics in spinal fusion  
Sandra Pietri, Bone Therapeutics, Belgium |
| BM-11 | Title: In vitro characterisation method for comparative evaluation of drug loaded embolic distal perfusion  
Marcus Caine, Biocompatibles UK Ltd, UK |
| BM-12 | Title: Hybrid calcium phosphate coatings for titanium implants  
Elena KharaKochevna, National Research Tomsk Polytechnic University, Russian Federation |
| BM-13 | Title: Study the effect of pulsed e-beam on properties of biodegradable PLLA scaffolds prepared by different methods  
Valerits Kudryavtseva, National Research Tomsk Polytechnic University (Tpu), Russia |

**Awards Ceremony**

**Panel Discussion**

**Day 3**  
Wednesday, March 16, 2016

**Scientific Partnering Meetings**

Coffee Break @ Foyer Area

Scientific Partnering Meetings

Lunch Break @ Restaurant

Thanks giving & Closing ceremony
## Keynote Forum

<table>
<thead>
<tr>
<th>Title</th>
<th>Speaker</th>
<th>Institution/Location</th>
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<tbody>
<tr>
<td>Biomacromolecule poly[3-(3,4-dihydroxyphenyl)glyceric acid] with potential therapeutic effect</td>
<td>Vakhtang V Barbakadze</td>
<td>Tbilisi State Medical University, Georgia</td>
</tr>
<tr>
<td>Carbohydrate microarrays for study of glycan associated biological events</td>
<td>Injae Shin</td>
<td>Yonsei University, Korea</td>
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</tbody>
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### Track 1: Fundamentals of Organic Chemistry

- Title: An innovative method for the extraction and quantification of curcuminoids from a complex matrix  
  Jarintzi Yared Rico Ruiz, Euro-Nutec Premix SA de CV, Mexico
- Title: Conjugates of hyaluronic acid with tyramine - synthesis and application  
  Radovan Buffa, Contipro Pharma, Czech Republic
- Title: Diketopyrrolopyrroles - the journey from ferrari pigments to fluorescent functional dyes  
  Daniel T Gryko, Polish Academy of Sciences, Poland

### Coffee Break

- Title: Non-coulombic ionic crystals with non-alternate arrangement of complex cations and inorganic anions  
  Takumi Konno, Osaka University, Japan
- Title: Toward molecular designing on graphene-based materials for catalytic applications  
  Sungjin Park, Inha University, South Korea
- Title: Tailor-made synthesis of multilayered trimetallocyclophanes via transannula π-π Interactions  
  Ok-Sang Jung, Pusan National University, Korea
- Title: Supramolecular catalysis within confined environment of metal-organic architectures  
  Chunying Duan, Dalian University of Technology, P R China
- Title: Validation guidelines of hydralazine hydrochloride spectrophotometric method  
  Yahdiana Harahap, Universitas Indonesia, Indonesia

### Lunch Break

- Title: Synthesis of ultramarine pigment from the mudstone of kutingkeng formation and the improvement of its refractory properties  
  S L Chen, National Cheng-Kung University, Taiwan
- Title: New podants with azaheterocycles skeleton as smart versatile building blocks for multiple tasks  
  Ionel I Mangalagiu, “AI.I.Cuza” University of Iasi, Romania
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<tr>
<td>Analysis of Botulinum Neurotoxin A (BoNT/A) in pharmaceutical products using MALDI-TOF and LC-MS/MS</td>
<td>Yiu-chung Wong, Hong Kong Government Laboratory, Hong Kong</td>
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<td>Synthesis of natural biologically active poly[3-(3,4-dihydroxyphenyl)-glyceric acid] analogues</td>
<td>Maia Merlani, Tbilisi State Medical University, Georgia</td>
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<tr>
<td>Preparation and synthetic application of 1-Azoniabicyclo[n.1.0]alkanes</td>
<td>Hyun-Joon Ha, Hankuk University of Foreign Studies, Korea</td>
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<tr>
<td>Sulfur based metal complexes for synthesis of semiconductor nanoparticles</td>
<td>Makwena Justice Moloto, Vaal University of Technology, South Africa</td>
</tr>
<tr>
<td>Functionalization of Keggin type nickel substituted phosphotungstate by imidazole: Synthesis, characterization and catalytic activity</td>
<td>Anjali Patel, The M S University of Baroda, India</td>
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</tbody>
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**Track 4: Green Chemistry: Green chemical principles**

**Track 5: Medical Biochemistry**

**Session Introduction**

**Session Chair:** Janis Gravitis, Latvian State Institute of Wood Chemistry, Latvia  
**Session Co-chair:** M Paula Robalo, Instituto Politécnico de Lisboa, Portugal, Portugal

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<tr>
<td>Protein-specific approach to osteopontin purification from Chlamydomonas reinhardtii</td>
<td>Zivko Nikolov, Texas A&amp;M University College Station, USA</td>
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<tr>
<td>Green forest and agricultural waste bio-refinery techniques and breakthrough materials</td>
<td>Janis Gravitis, Latvian State Institute of Wood Chemistry, Latvia</td>
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<td>Photocatalytic H2-production by homogeneous and heterogeneous advanced materials</td>
<td>Peter Brüggeller, University of Innsbruck, Austria</td>
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<tr>
<td>New conceptual diary iodonium salts for metal-free arylation of carboxylic acids and other coupling reactions</td>
<td>Toshifumi Dohi, Ritsumeikan University, Japan</td>
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<td>Loss mechanism in the open circuit voltage of polymer solar cells</td>
<td>Zhicai He, South China University of Technology, P R China</td>
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<tr>
<td>Preparation and swelling capacity of superabsorbent polymer composites based on attapulgite clay</td>
<td>El-Refaie Kenawy, Tanta University, Egypt</td>
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<tr>
<td>Laccases: biocatalysts towards new heterocyclic cores</td>
<td>M Paula Robalo, Instituto Politécnico de Lisboa, Portugal</td>
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<tr>
<td>Effect of Quercetin and Apigenin on LDL receptor gene (LDLR) and Hydroxy-methyl glutrate reductase gene (Hmgcr) in a cholesterol attenuating trial.</td>
<td>Marwa E Kenawy, Tanta University, Egypt</td>
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**Day 2 June 17, 2016**

**Olimpica 1 & 2**

**Keynote Forum**

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<tr>
<td>Selectivity control of Au-catalyzed oxidation of glycerol in water</td>
<td>Bo-Qing Xu, Tsinghua University, China</td>
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<td>Functions of nucleic acids with non-canonical structures</td>
<td>Naoki Sugimoto, Konan University, Japan</td>
</tr>
<tr>
<td>Pyrrolo[3,2-b]pyrroles-new electron-rich functional π-electron system</td>
<td>Daniel T Gryko, Polish Academy of Sciences, Poland</td>
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**Poster Presentations**

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<th>Title</th>
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<tr>
<td>Unnatural fluoro-oxindole alkaloids produced by Uncaria guianensis plantlets</td>
<td>Adriana A Lopes, Universidade de Ribeirão Preto, Brazil</td>
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</tbody>
</table>
| ECPP002 | Title: Spectrophotometric investigation of early lanthanide(III) porphyrin complexes  
Melitta Patrícia Kiss, University of Pannonia, Hungary |
| ECPP003 | Title: Photoinduced heterogenous catalysis with TiO<sub>2</sub> and kaolinite  
Orsolya Fónagy, University of Pannonia, Hungary |
| ECPP004 | Title: Photocatalytic decomposition of a nonionic detergent  
Hegedűs Péter, University of Pannonia, Hungary |
| ECPP005 | Title: Patented method-based evaluation of the toxicity of some uncoupling dinitrophenol-like compounds  
Marius Zaharia, Alexandru Ioan Cuza University, Romania |
| ECPP006 | Title: Synthesis, antiproliferative activity and molecular docking of new colchicine derivatives  
Adam Huczynski, Adam Mickiewicz University, Poland |
| ECPP007 | Title: Antimycobacterial activity and QSAR studies of 2H-chromene and coumarin based hydrazones  
Violina T Angelova, Medical University of Sofia, Bulgaria |
| ECPP008 | Title: Selective and stoichiometric fatty acids sensing with a polydiacetylene liposome  
Chang Wook Song, Pohang University of Science and Technology, Republic of Korea |
| ECPP009 | Title: Novel two-photon dyes: Minimal autofluorescence in tissue imaging  
Juryang Bae, Pohang University of Science and Technology, Republic of Korea |
| ECPP010 | Title: Lyssosomal zinc ions imaging with two-photon fluorescent probe  
Hyeonjin Park, Pohang University of Science and Technology, Republic of Korea |
| ECPP011 | Title: How to enhance fluorescence and two-photon properties of typical dipolar dyes in aqueous media?  
Hyerim Kim, Pohang University of Science and Technology, Republic of Korea |
| ECPP012 | Title: Ionic conductivity on cyano-bridged bimetal assemblies  
Kosuke Nakagawa, The University of Tokyo, Japan |
| ECPP013 | Title: A fluorenyl-based metal-organic framework with photocatalytic property  
Rong-Xin Yuan, Changshu Institute of Technology, P.R.China |
| ECPP014 | Title: Palladium nanoparticles supported on four different materials as efficient catalysts for suzuki cross-coupling reactions  
Bilgehan Guzel, University of Cukurova, Turkey |
| ECPP015 | Title: Synthesis of ScCO<sub>2</sub> soluble perfluorinated chiral shiff-base ligand and its metal complexes  
Burcu Darendeli, University of Cukurova, Turkey |
| ECPP016 | Title: Synthesis and enzyme inhibition study of dihydrofurocumarin and dihydrofuropyran compounds  
Asli Ustalar, Kocaeli University, Turkey |
| ECPP017 | Title: Signaling of Hg(II) ions by reaction-based probes based on depyro-tion of dithiane  
In Jung Chang, Chung-Ang University, Republic of Korea |
| ECPP018 | Title: Smartphone-based fluorescence signaling of hypochlorite in tap water by oxidative hydrolysis of sulfonhydrazone  
Min Jeoung Cho, Chung-Ang University, Republic of Korea |
| ECPP019 | Title: Dual signaling of the water content of biofuel-relevant ethanol and butanol by pyranines  
Yun-uk Jung, Chung-Ang University, Republic of Korea |
| ECPP020 | Title: Photophysical properties of boron trifluoride complexes based on 2(2',4'-dihydroxyphenyl) benzothiazole and benzimidazole  
Sang Hun Lee, Chung-Ang University, Republic of Korea |
| ECPP021 | Title: Phytochemical screening and antitumor effect of ethanol extract of Egyptian wild plants  
Thoria Diab, Tanta University, Egypt |
| ECPP022 | Title: Calcineurin levels and activity in breast cancer: Relation to apoptosis  
Abeer Abdel Hamid Ahmed Khamis, Tanta University, Egypt |
| ECPP023 | Title: Protection and functionalization of magnetic iron oxide nanoparticles with phthalic acid for the efficient removal of reactive black 5 from aqueous solutions  
Gehan M Nabil, Alexandria University, Egypt |
| ECPP024 | Title: A new polymeric membrane Fe (III) Ion-selective sensor based on Fe (III)-Morin (3, 5, 7, 2', 4'-Pentahydroxyflavone) Schiff Base  
Tugba Ozer, Yildiz Technical University, Turkey |
|---------|--------------------------------------------------------------------------------------------------|
| ECPP025 | Title: A novel iron(II) selective membrane electrode based on 2-cyanomethyl n-methyl-n-phenyl dithiocarbamate and its applications  
Tugba Ozer, Yildiz Technical University, Turkey |
| ECPP026 | Title: Computer simulation of the molecules of thermotropic substituted biphenyls  
Abulyaissova L K, Buketova State University of Karagandy, Kazakhstan |
| ECPP027 | Title: Comparative study of corrosion of iron in cyanide and thiourea media in hydrometallurgical processes  
Hugo Romero, Universidad Técnica de Machala, Ecuador |
| ECPP028 | Title: Adsorption kinetics, isotherms and thermodynamic studies for Hg2+ adsorption from aqueous medium using alizarin red-S loaded amberlite IRA-400 resin  
Mu Naushad, King Saud University, Saudi Arabia |
| ECPP029 | Title: In situ preparation of nitrogen enriched hierarchically nanoporous carbon from polybenzoxazine precursor for CO2 capture and storage  
Nicharat Manmuanpom, Chulalongkorn University, Bangkok |
| ECPP030 | Title: Direct voltammetric determination of redox-active iron in carbon nanotubes  
Wei Zhe Teo, Nanyang Technological University, Singapore |

Speaker Presentations to be continued

Track 6: Physical Chemistry
Track 9: Nuclear chemistry

Session Chair: Piotr Cysewski, Nicolaus Copernicus University in Toruń, Poland  
Session Co-chair: Ken Cham-Fai Leung, The Hong Kong Baptist University, Hong Kong

Title: Impacts of conformational geometries in fluorinated hydrocarbons  
Tim Brandenburg, Helmholtz Zentrum Berlin, Germany

Title: Decarboxylative fluorination of carboxylic acids with heterogeneous catalysts  
Giulia Tarantino, Cardiff University, UK

Title: Conceptual design of a nano-leaf for artificial photosynthesis  
Jacinto Sá, Uppsala University, Sweden

Title: Fabrication and characterization of Pd-Ni porous membrane for hydrogen separation  
Sun Hee Choi, Korea Institute of Science and Technology, South Korea

Title: Anti-inflammatory and wound healing activities of Hemisgraphis alternata  
Joo Kheng Goh, Monash University Malaysia, Malaysia

Title: RNA self-assembly and RNA bio-nanotechnology  
Luc Jaeger, University of California, USA

Title: Extraction and characterization of collagen from the white jellyfish (Lobonema smithi Mayer.)  
Ubon Rerk-am, Thailand Institute of Scientific and Technological Research, Thailand

Title: Interfacial assembly and theranostic applications of organic-inorganic hybrid nanomaterials  
Ken Cham-Fai Leung, The Hong Kong Baptist University, Hong Kong

Title: An efficient coformers selection for co-crystals screening of active pharmaceutical ingredients  
Piotr Cysewski, Nicolaus Copernicus University in Toruń, Poland

Track 7: Biological Chemistry
Track 8: Environmental Chemistry
Track 10: Theoretical Chemistry
Session Chair: Yanli Wang, National Center for Biotechnology Information, USA  
Session Co-chair: Min Jae Lee, Seoul National University, Korea

**Title: Data mining drug, chemical probe and their biological activity in PubChem**  
**Yanli Wang**, National Center for Biotechnology Information, USA

**Title: NMR Molecular Replacement, NMR**  
**Julien Orts**, Swiss Federal Institute of Technology, Switzerland

**Title: Opening the core particle gate of mammalian proteasomes to enhance their degradatory activity**  
**Min Jae Lee**, Seoul National University, Korea

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| **ECPP031** | **Title:** Promotion of sorghum hybrids bran grown in southern italy for PHB ecological production by Sphingomonas cynarae  
**Roberta Romano**, University of Salento, Italy |
| **ECPP032** | **Title:** Synthesis of NiO nanoparticles for new nanocomposite materials  
**Sevil Çetinkaya**, Kirikkale University, Turkey |
| **ECPP033** | **Title:** Antioxidant activity of wild garlic extract (Allium ursinum) obtained by subcritical water extraction  
**Alena Tomskik**, University of Novi Sad, Serbia |
| **ECPP034** | **Title:** Preparation of biological active steroids  
**Sevinc Ilkar Erdagi**, Kocaeli University, Turkey |
| **ECPP035** | **Title:** Synthesis of 4-amino-N-4-pyridin-1,8-naphthalimide, a new ligand for complexes and metalorganic frameworks  
**Ulisses Fiorin Angelo**, University of São Paulo, Brazil |
| **ECPP036** | **Title:** In vivo anti-wrinkle and anti-melasma activities of peptides isolated from Pigeon pea (Cajanus cajan L. Millsp)  
**Tuanta Sematong**, Thailand Institute of Scientific and Technological Research, Thailand |
| **ECPP037** | **Title:** Effect of porogen type and cationic, anionic and nonionic surfactant ratio on the properties of porous polymer supports  
**Vesile Şima Ünnü**, Kirikkale University, Turkey |
| **ECPP038** | **Title:** Polyaniline–Ionic liquid mixtures and their application in dye-sensitized solar cells  
**Sang Jun Lee**, Kwangwoon University, Korea |
| **ECPP039** | **Title:** Air annealing technique to improve photoelectric properties of pristine graphene  
**Dapeng Wei**, Chinese Academy of Sciences, China |
| **ECPP040** | **Title:** Development of lateral-flow immunoassay for the diagnosis of laryngopharyngeal reflux disease  
**Jiyoon Kwon**, Kwangwoon University, Korea |
| **ECPP041** | **Title:** Characteristics of the different S=O, S-O, N—H, O—H and Na—O bonds into the powerful laxative sodium picosulphate drug and their effects on the properties  
**Silvia Antonia Brandan**, Institute of Inorganic Chemistry, Argentina |
| **ECPP042** | **Title:** Multiresidue analysis of selected pharmaceutical compounds in poultry manure by gas chromatography–mass spectrometry  
**Ramón Aznar**, Spanish National Institute for Agricultural and Food Research and Technology, Spain |
| **ECPP043** | **Title:** Study on the micro pulsed electro-chemical machining of invar alloy according to electrolyte variables  
**Seong-Hyun Kim**, Inha University, Republic of Korea |
| **ECPP044** | **Title:** Antimicrobial activity of collagen/silver doped hydroxyapatite composites against gram-positive and gram-negative bacteria  
**A M Prodan**, Carol Davila University of Medicine and Pharmacy, Romania |
| **ECPP045** | **Title:** Antimicrobial activity of collagen/silver doped hydroxyapatite composites against gram-positive and gram-negative bacteria  
**C L Popa**, National Institute of Materials Physics, Romania |
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<tr>
<th>Title</th>
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<tbody>
<tr>
<td>The Nitrogen Cycle in air, soil and water</td>
<td>Reza Pashaei</td>
<td>University of Siena, Italy</td>
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<td>Tunable magnetic property and millimeter wave absorption property of ( \varepsilon )-Fe(_2)O(_3) by metal substitution</td>
<td>Asuka Namai</td>
<td>The University of Tokyo, Japan</td>
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<tr>
<td>Anticonvulsant activity of newly synthesized benzoylhydrazones with 2H-chromene and coumarin moieties in ICR mice</td>
<td>Valentin Karabelyov</td>
<td>Medical University of Sofia, Bulgaria</td>
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<tr>
<td>Perpendicularly-oriented microdomain ordering of lamella-forming PS-b-PMMA thin film observed by tuning film thickness</td>
<td>Wooseop Lee</td>
<td>Yonsei University, Republic of Korea</td>
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<tr>
<td>Phase transition behavior of asymmetric polystyrene-b-poly(2-vinylpyridine) thin films under strong interfacial Interactions: A stable hexagonally modulated layer (HML) structure</td>
<td>Sungmin Park</td>
<td>Yonsei University, Republic of Korea</td>
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<tr>
<td>Interaction between the hydroxyl functionalized PS and dPS in dry brush system</td>
<td>Seongjun Jo</td>
<td>Yonsei University, Republic of Korea</td>
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<td>Synthesis and characterization of new quaternary niobium selenites</td>
<td>Bongsu Kim</td>
<td>Chung-Ang University, Republic of Korea</td>
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<tr>
<td>Polar noncentrosymmetric ZnMoSb(_2)O(_7) and nonpolar centrosymmetric CdMoSb(<em>4)O(</em>{10}): ( \Delta ) transition metal size effect influencing the stoichiometry and the centricity</td>
<td>Hongil Jo</td>
<td>Chung-Ang University, Korea</td>
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<td>Effective removal of rare earth metals using surface-active agent</td>
<td>Dzhevaga Natalia Vladimirovna</td>
<td>National Mineral Resources University, Russia</td>
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<td>Thermodynamic characteristics of sorption extraction of anionic complexes of erbium with trilon B on weakly basic anionite</td>
<td>Ponomareva Mariya</td>
<td>National Mineral Resources University, Russia</td>
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<tr>
<td>The interaction of 1-nitro- and 1-bromo-1-nitro-3,3,3-trifluoro(chloro)propenes with phenylazide</td>
<td>Alena Kuzhaeva</td>
<td>National Mineral Resources University, Russia</td>
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<td>Modern glassy phosphate fertilizers</td>
<td>Kirill Karapetian</td>
<td>National Mineral Resources University, Russia</td>
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<tr>
<td>Arsenic speciation studies in Oriza sativa L. grown in wahalkada, Sri Lanka</td>
<td>Samanthika R Hettiarachchi</td>
<td>The Open University of Sri Lanka, Sri Lanka</td>
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<tr>
<td>Effect of preanalytical techniques and variables on plasma ammonia determination</td>
<td>Ibraheem M Al-Qurashi</td>
<td>Taif University, Saudi Arabia</td>
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<tr>
<td>Bioavailability and concentration of selected heavy metals from soils at the Ecton mining area with long-mining history of Cu, Pb, and Zn, Derbyshire, UK</td>
<td>Zahid O Alibrahim</td>
<td>Wolverhampton University, United Kingdom</td>
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<tr>
<td>Ion-imprinted thermoresponsive fluorescent hydrogel for removal and determination of uranyl ion</td>
<td>Elif Gökçe Atçakan</td>
<td>Istanbul Technical University, Turkey</td>
</tr>
<tr>
<td>Electrophilic phosphinidene complex affords novel organophosphorus compounds</td>
<td>Arif Ali Khan</td>
<td>Guru Gobind Singh Indraprastha University, India</td>
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<tr>
<td>Synthesis of composite materials for chromatographic column separations</td>
<td>Amjad Mumtaz Khan</td>
<td>Aligarh Muslim University, India</td>
</tr>
<tr>
<td>Regulation of electron transfer in nitric oxide synthase by conformational dynamics</td>
<td>Changjian Feng</td>
<td>University of New Mexico, USA</td>
</tr>
</tbody>
</table>
Title: Aggregation-free gold nanoparticles in ordered mesoporous carbons: towards highly active and stable heterogeneous catalysts for selective oxidation of alcohols and selective reduction of nitroarenes

Ying Wan, Shanghai Normal University, China

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**Day 3  June 18, 2016**

**Olimpica 1 & 2**

**Track 11: Medicinal Chemistry**
**Track 12: Materials Chemistry**

**Session Introduction**

**Session Chair: Brian W Dymock, University of Singapore, Singapore**
**Session Co-chair: Marc Le Borgne, Université Lyon, France**

**Title: Ruthenium organometallic compounds as promising anti-metastatic drugs for breast cancer chemotherapy**
*M Helena Garcia,* Universidade de Lisboa, Portugal

**Title: Polymer-metal conjugates: Versatile scaffolds for the synthesis of new antitumor drugs**
*Andrea Valente,* Universidade de Lisboa, Portugal

**Title: Novel functional materials based on cyanido-bridged metal assemblies and metal oxides**
*Shin-ichi Ohkoshi,* The University of Tokyo, Japan

**Title: The medicinal chemist’s toolbox: how to use it to develop small molecule CK2 inhibitors**
*Marc Le Borgne,* Université Lyon, France

**Coffee Break**

**Title: Designed bispecific molecules selectively inhibiting both JAK2 and HDAC at low nanomolar concentrations**
*Brian W Dymock,* University of Singapore, Singapore

**Title: In silico screening of Aloysia citrodora Palau. leaf essential oil for anticholinesterase inhibitors**
*Sawsan Abuhamdah,* The University of Jordan, Jordan

**Title: Design of active and durable catalysts with non-precious materials for oxygen reduction and evolution reactions: First principles prediction and experimental validation**
*Byungchan Han,* Yonsei University, Korea

**Title: The effect of doping NiMgAl catalysts with lanthanum on the dry reforming of methane**
*Samer Aouad,* University of Balamand, Lebanon

**Title: S-Nitrosothiol-modified silica/polymer hybrid nanofibers as a nitric oxide storage/delivery scaffold**
*Soo Ji Son,* Kwangwoon University, Korea

**Lunch Break**

**Track 13: Petro Chemistry**
**Track 14: Multi-disciplinary Chemistry**

**Session Introduction**

**Session Chair: Jean-Bernard Regnouf-de-Vains, Université de Lorraine, France**
**Session Co-chair: Rukan Can Seyfeli, Gazi University, Turkey**

**Title: Study of intermolecular and intramolecular vibrations in heterocyclic aromatic hydrocarbons**
*Patricia Guevara Level,* Université de Pau et des Pays de l’Adour, France

**Title: From discrete to supported antibacterial calixarenes: toward bacteriophilic materials**
*Jean-Bernard Regnouf-de-Vains,* Université de Lorraine, France

**Title: First-principles calculation of ε-Fe$_2$O$_3$ with a huge coercive field**
*Marie Yoshikiyo,* The University of Tokyo, Japan

**Title: Thymus and Origanum species growing in Turkey: Their phytochemical and biological activity properties**
*Ufuk Özgen,* Karadeniz Technical University, Turkey

**Title: Bentonite-Treatment of Bentonite with Na$_2$CO$_3$ and MgO**
*Rukan Can Seyfeli,* Gazi University, Turkey

**Title: The benefit of supplementing with Iron and vitamin B12 singly and in combination on haemoglobin among 6 to 9 years old rural primary school children in Kilifi County, Kenya?**
*Priscilla Monyangi Nyakundi,* Kenya Medical Research Institute, Kenya
Title: Exploring DNA interaction and anticancer activity of ruthenium (II) mononuclear complexes and their luminescent properties
S Satyanarayana, Osmania University, India

Coffee Break

Title: Determination of skin softeners, skin shiners and phytoconstituents from eugenol oil extracted from clove buds of clove trees found in zanzibar
Ochieng Anthony, Sumait University, Tanzania

Title: Quantitative analysis of multi-component alkane mixture with fourier transform infrared spectrometer based on TR-LSSVM-PSO
Feng Zhang, Xi’an Jiaotong University, China

Title: An attractor-repulsor molecular design principle for the exploration of supramolecular steric hindrance (SSH) effects
Linghai Xie, Nanjing University of Posts & Telecommunications, China

Title: Arithmetic progression way in calibration STD curve
Hisham H A Mohammedkhair, University of Khartoum, Sudan

Award Ceremony
Opening Ceremony

Keynote Forum

Introduction

Michael W. Tausch
University of Wuppertal, Germany

Jas Pal Badyal
Durham University, UK

Track 1: Materials Science and Engineering

Track 2: Informatics in Various Fields of Materials

Session Introduction

Session Chair: Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Session Co-chair: Jijeesh R Nair, Polytechnic University of Turin, Italy

Title: Molecular magnetic switches
Marat M. Khusniyarov, Friedrich-Alexander-University of Erlangen-Nuremberg, Germany

Title: The role of polymer electrolyte in constructing an aging resistant high energy lithium battery for wide temperature application
Jijeesh R Nair, Polytechnic University of Turin, Italy

Group Photo

Coffee Break

Title: The prediction of long-term creep data of fibrous polymer composites based on short term experiments
Urs Meier, Swiss Federal Laboratories for Materials Science and Technology, Switzerland

Title: Group III-Nitride semiconductor nanostructures for novel photonic applications
Yong-Hoon Cho, Korea Advanced Institute of Science and Technology (KAIST), Republic of Korea

Title: Polymer derived boron nitride ceramics for energy applications
Philippe Miele, University of Montpellier, France

Title: Teaching from practice to theory
Mario Pablo Spector, National Technological University, Argentina

Title: Novel biological method for iron rust removal
S. Rajendran, Madurai Kamaraj University, India

Lunch Break

Young Researchers Forum

Title: Towards more efficient upconverting materials based on NaYF₄ nanoparticles: Phase and size controlled synthesis and optical evaluation
Fabrizio Guzzetta, Universitat Jaume I, Spain

Title: High efficiency for photo-polymerizable VCP ester-amide resins: A universal concept providing low volume shrinkage, high reactivity and selectivity
Paul Pineda, University of Bayreuth, Germany

Title: Non-ionic UCST-type polymers: Synthesis and analysis of new thermostressive properties in aqueous media
Beatriz A Pineda-Contreras, University of Bayreuth, Germany

Title: Expanding the NMR palette: Insights on artificial charge separators
Brijith Thomas, Leiden Institute of Chemistry, Netherlands
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<th>Track 4: Design and Synthesis of Materials</th>
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<td>Session Chair: Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland</td>
<td>Session Co-chair: Bruno Bureau, Institut Universitaire de France, France</td>
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</table>

**Title:** Synthesis of the first POSS cage - anthracycline nano-conjugates  
Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland

**Title:** Synthesis of fine-controlled subnano-metal particles using a dendrimer reactor  
Kimihisa Yamamoto, Tokyo Institute of Technology, Japan

**Title:** Tellurium based glasses for far infrared and thermoelectric applications  
Bruno Bureau, Institut Universitaire de France, France

**Title:** Game-based materials to teaching and learning the periodic table  
Antonio Joaquin Franco-Mariscal, University of Malaga, Spain

**Coffee Break**

**Title:** Fibre structures for energy harvesting in wearables  
Elias Siores, Bolton University, UK

**Title:** Microstructure evolution at different cooling rates of a low carbon microalloyed steel  
Elena Brandaleze, National Technological University, Argentina

**Keynote Forum**

**Reshef Tenne**  
Weizmann Institute, Israel

**Der-Jang Liaw**  
National Taiwan University of Science and Technology, Taiwan

**Track 5: Foundational Challenges in Predictive Materials Chemistry**

**Track 6: Rational Chemical Synthesis on Nanoscale and Nanostructured Materials**

**Track 7: Polymer Materials and their Technology**

**Session Chair:** Michael W. Tausch, University of Wuppertal, Germany  
**Session Co-chair:** Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

**Session Introduction**

**Title:** Photoprocesses in science education  
Michael W. Tausch, University of Wuppertal, Germany

**Title:** Hybrid organic-inorganic materials for thin-film lighting technologies  
Ruben D. Costa, Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany

**Coffee Break**

**Title:** Novel polymer-peptide conjugates and polymer-based peptidomimetics  
Marc Devocelle, Royal College of Surgeons in Ireland (RCSI), Ireland

**Title:** Conjugated copolymers and their optimization for ambipolar field effect transistors  
Martin Baumgarten, Max Planck Institute for Polymer Research, Germany

**Title:** Spectroscopic tools to study and interpret macromolecular dynamics at a molecular scale  
Jorge Teno Diaz, Carlos III University of Madrid, Spain

**Title:** Ultrasonic fabrication of microfluidic polymer chips  
Werner Karl Schomburg, RWTH Aachen University, Germany

**Title:** Synthetic polymers from easily available monosacharides  
M. Gracia Garcia-Martin, University of Seville, Spain

**Lunch Break**

**Poster Presentations**

**PPMC001**  
**Title:** Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins II: In vitro assessment of antifungal properties  
**Irina Rosca**, Petru Poni Institute of Macromolecular Chemistry, Romania
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<tr>
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<td>Title: Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins: Synthesis, characterization and in silico assessment</td>
<td>Narcisa Laura Marangoci, Petru Poni Institute of Macromolecular Chemistry, Romania</td>
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<td>Title: Silver nanoclusters doped in mordenite zeolite as photocatalysts toward pesticides</td>
<td>Imad A Abu-Yousef, American University of Sharjah, UAE</td>
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<tr>
<td>Title: Improving PLA properties through the incorporation of electrospun nanofibers based on PVA and cellulose nanowhiskers</td>
<td>Carol Lopez de Dicastillo, Santiago de Chile University, Chile</td>
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<td>Title: Antimicrobial supercritical impregnation of nanocomposites for food packaging</td>
<td>Maria Jose Galotto, Santiago de Chile University, Chile</td>
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<td>Title: Preparation and characterization of chitosan-co-hyaluronic acid cryogels</td>
<td>Tugce Kutlusoy, Marmara University, Turkey</td>
</tr>
<tr>
<td>Title: Synthesis and characterization of high performance polyimide nanofibers and application on lithium-ion batteries</td>
<td>Emre Aytan, Marmara University, Turkey</td>
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<td>Title: Molecularly imprinted polymeric nanoparticle: Preparation and characterization</td>
<td>Merve Yasar, Marmara University, Turkey</td>
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<td>Title: Novel macroporous poly-pickering-HIPE composites for heterogeneous photocatalysis</td>
<td>Elif Yüce, Yalova University</td>
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<tr>
<td>Title: Poly-pickering-HIPEs as heterogeneous photocatalysts</td>
<td>Fatma Nur Parın, Yalova University</td>
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**Track 8: Applied Materials Chemistry**

**Track 9: Current Innovations and Emerging Areas in Materials Chemistry**

**Track 10: Research Aspects of Materials Chemistry**

**Track 11: Science of Advanced Materials**

**Session Chair:** Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK

**Session Co-chair:** Yo Tanaka, RIKEN, Japan

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<td>Title: Solute effect on grain boundary migration in ultrafine/nanostructured materials</td>
<td>Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK</td>
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<td>Title: Application of ultra-thin flexible glass sheets to microfluidic devices</td>
<td>Yo Tanaka, RIKEN, Japan</td>
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<td>Title: Nanoscale strategies towards development of advanced Mn-based permanent magnets</td>
<td>Felix Jimenez-Villacorta, Materials Science Institute of Madrid (ICMM-CSIC), Spain</td>
</tr>
<tr>
<td>Title: Sialon nano-composites matrix reinforced by cubic boron nitride prepared by using spark plasma sintering</td>
<td>Abbas Saeed Hakeem, King Fahd University of Petroleum &amp; Minerals, Saudi Arabia</td>
</tr>
<tr>
<td>Title: Segregation of ions in deliquesced droplets of alkali halide nano-crystals on SiO₂</td>
<td>Kenta Arima, Osaka University, Japan</td>
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<tr>
<td>Title: Nanomechanics with nanotubes and fullerene-like-WS₂(MoS₂)</td>
<td>Reshef Tenne, Weizmann Institute, Israel</td>
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**Coffee Break**

**Video Presentation:** One-pot waterborne superhydrophobic pigment coatings at high solids with improved scratch and water resistance

Agne Swerin, SP Technical Research Institute of Sweden – Chemistry, Sweden

**Title:** On the peculiar mechanical and tribological behavior of polymer nanocomposites with nanotubes of WS₂ and nanowires of Mo₅S₁₄

Johann G Meier, ITAINNOVA Instituto Tecnológico de Aragón, Spain
Scientific Program

6th International Conference and Exhibition on

Materials Science and Engineering

September 12-14, 2016    Atlanta, USA
### Keynote Forum

| Title: Small things offer big promise | Carlo Montemagno, University of Alberta, Canada |
| Title: Materials and processing opportunities and challenges for transformation of global electricity infrastructure | Rajendra Singh, Clemson University, USA |
| Title: Heat resistant engineering materials for industrial application | Zofia Niemczura, Arcelormittal Global R&D, USA |

### Session Introduction

| Title: Electrical conduction mechanism of volume and surface resistivities of multi-walled carbon nanotubes doped polyvinyl alcohol (PVA) and the pyroelectric behavior of polyvinylidene difluoride (PVDF) thin films | Matthew E Edwards, Alabama A&M University, USA |
| Title: An approximate semiclassical method that uses real valued trajectories for time dependent tunneling calculations | Michael F Herman, Tulane University, USA |
| Title: Tuning electrical conductivity with photoirradiation and electric field in organic crystals and ionic solids | Nobuhiro Ohta, National Chiao Tung University, Taiwan |
| Title: Fine-controlled subnano-metal particles in a dendrimer reactor | Kimihisa Yamamoto, Tokyo Institute of Technology, Japan |
| Title: Study of the adsorption of simple molecules on metal oxides by ab initio calculations. Application to the detection of gas | Caroline Lambert-Mauriat, Aix Marseille Université, France |
| Title: In situ investigations of particle-mediated crystal growth | Dongsheng Li, Pacific Northwest National Laboratory, USA |

### Lunch Break

| Title: Terahertz laser sources based on difference frequency generation of infrared nonlinear optical materials SnGa$_2$Q$_2$ (Q = S, Se) | Wen-Dan Cheng, Chinese Academy of Sciences, China |
| Title: Microstructure and mechanical properties of a low C medium Mn heavy plate steel | Lin-Xiu Du, Northeastern University, China |
| Title: Microstructure and mechanical property of vacuum rolled Ni-based alloy/pipeline steel clad plate | Guang-ming XIE, Northeastern University, China |

### Panel Discussion

| Memento Presentation to Organizing Committee Members |
Session Chair: Jun Ding, National University of Singapore, Singapore
Session Chair: Hideo Miura, Tohoku University, Japan

Session Introduction

**Title: Spinel ferrite films with enhanced magnetization and large magneto-resistance**
Jun Ding, National University of Singapore, Singapore

**Title: Degradation of crystallinity and properties of advanced functional materials caused by anisotropic local diffusion of component atoms under severe operating conditions**
Hideo Miura, Tohoku University, Japan

**Title: A high-entropy alloy with ultrahigh ductility breaks strength-ductility paradox**
Yonghao Zhao, Nanjing University of Science and Technology, China

**Title: Research on the optimization mechanism of loading path for hydroforming process**
Zong-an LUO, Northeastern University, China

Networking & Refreshments Break

**Title: Process research on the stainless steel / low alloy steel clad plate prepared by vacuum hot rolling**
Feng Ying-ying, Northeastern University, China

Young Research Forum

**Title: On sample structure for fabricating micro-material by electromigration**
Yasuhiro Kimura, Tohoku University, Japan

**Title: Tailoring surface charge to antifouling applications**
Guo Shanshan, National University of Singapore, Singapore

Panel Discussions

Day 2  September 13, 2016

Chattahoochee-A

Keynote Forum

Introduction

**Title: Recent progress in acoustic metamaterials membranes for low frequency sound attenuation**
Ramesh K Agarwal, Washington University in St. Louis, USA

**Title: Nanostructured functional organic materials synthesized by a laser irradiation method for applications of molecular devices and high-sensitive sensors**
Masahiro Goto, National Institute for Materials Science, Japan

Sessions:
Nanotechnology in Materials Science | Energy Materials | Emerging Areas of Materials Science and Nanotechnology

Session Chair: Rajendra Bordia, Clemson University, USA
Session Chair: Masumi Saka, Tohoku University, Japan

Session Introduction

**Title: Analysis and simulation guided processing of hierarchical porous and multi-layered ceramics for energy applications**
Rajendra Bordia, Clemson University, USA

**Title: Effect of passivation on suppression or utilization of atomic migration phenomena in metallic thin-film materials**
Masumi Saka, Tohoku University, Japan

Networking & Refreshments Break

**Title: Fabrication of aluminum matrix composites with nano-sized reinforcements via friction stir processing**
Zong-yi Ma, Chinese Academy of Sciences, China

**Title: Synthesis and preparation of nanocomposites of metal oxide and metal sulphide by electrochemical, hydrothermal and biological method: Its application for polymer nanocomposites, antibacterial, photo-voltaic and as photocatalyst**
Sannaiah Ananda, University of Mysore, India

**Title: Energy storage material**
Subramanian Selladurai, Anna University, India

**Title: Micro-beam laser ablation/mass spectrometry for materials depth-profiling and elemental surface distribution studies – Polymers, waxes, asphaltenes, steels**
Avin Pillay, The Petroleum Institute, UAE
Title: Synthesis of carbon hollow spheres by a modified hydrothermal carbonization method
Mingli Qin, University of Science and Technology Beijing, P.R. China

Title: Transmission electron microscopy – A versatile tool to study the microstructure of HT-PEMFC
Christina Scheu, Max-Planck-Institute, Germany

Title: Hollow polydopamine nanoparticles loaded ionic liquid and doxorubicin for combined chemotherapy and microwave thermal therapy of cancer
Tianlong Liu, Chinese Academy of Sciences, P. R. China

Panel Discussions

Memento Presentation to Organizing Committee Members

Lunch Break

Session Chair: Avin Pillay, The Petroleum Institute, UAE
Session Chair: Zong-yi Ma, Chinese Academy of Sciences, China

Session Introduction

Title: Large pulsed electron beam surface treatment of woven carbon fiber/ZnO nanorod/polyester resin composites
Hyung Wook Park, Ulsan National Institute of Science and Technology, Rep. of Korea

Title: The design, synthesis and application of microwave susceptible agents for tumor microwave thermotherapy based on confinement mechanism
Xianwei Meng, Chinese Academy of Sciences, China

Title: Synthesis and characterization of hybrid nanoparticles for biomedical and environmental remediation applications
Soubantika Palchoudhury, University of Tennessee, USA

Title: Luminescent periodic microstructures for medical applications
Kenji Miura, Gunma University, Japan

Title: Alumina-based nanocomposites using graphite nanoplatelets as reinforcement
Syed Nasmul Alam, National Institute of Technology Rourkela, India

Title: BiVO4 and WO3 nanophotocatalysts: Water-splitting and environmental applications
G. T. Chandrappa, Bangalore University, India

Title: Null current hysteresis for acetylacetone based perovskite solar cells as electron extraction layer
Abd. Rashid bin Mohd Yusoff, Kyung Hee University, South Korea

Networking & Refreshments Break

Young Research Forum

Title: Nitrogen doping into ZnO branched nanowire by plasma treatment and its effect on photo electrochemical performance
Shrok Allami, Ministry of Science and Technology, Iraq

Title: Polymeric nanocomposites gate dielectric for organic thin film transistors
Davoud Dastan, Savitribai Phule Pune University, India

Title: Engineered metal oxide nanoparticles, nano-bio interaction and toxicology
Avnika S Anand, Defence Research and Development Organization, India

Title: Density functional theory calculations for the electronic, magnetic, and chemical bonding properties of geometrically frustrated spinel CdCr2O4
Najmeh Bolandhemat, Universiti Putra Malaysia, Malaysia

Panel Discussions

Poster Presentations

MSE-01
Title: A study of natural radioactivity in the welding workshops waste
Zain M Al-Amoudi, King Abdulaziz University, Saudi Arabia

MSE-02
Title: Synthesis of polymer composites thin films of Cr2O3 nanoparticles and study of its optical and electrical properties
Venkatesha B M, University of Mysore, India

MSE-03
Title: Solid state decarburization of high carbon ferrochromium
Amit Bhalla, University of Witwatersrand, South Africa

MSE-04
Title: Synthesis of vanadium oxide/carbon nanotubes for anodes for lithium-ion batteries
Baorui Jia, University of Science and Technology Beijing, P R China
**MSE-05**

Title: Analysis of valonia oak (Quercus aegylops) acorn tannin and wood adhesives application

Fatmah Bahabri, King Abdulaziz University, Saudi Arabia

**MSE-06**

Title: Rate-dependent hardening model for HCP metals with effect of deformation twinning and dynamic recrystallization

Jonghun Yoon, Hanyang University, South Korea

**MSE-07**

Title: Effect of gamma irradiation on the structural and color properties of CR 6-2 polycarbonate

Mymona Abutalib, King Abdulaziz University, Saudi Arabia

**MSE-08**

Title: Corrosion inhibition effects of Tungstate and Nitrite ions on sputter-deposited nanocrystalline W-42Cr-5Ni Alloy in 0.5 M NaCl solution

Durga Bhakta Pokharel, Tribhuvan University, Nepal

**MSE-09**

Title: Vanadium nitride nanoparticles encapsulated in carbon sheets for stable high energy lithium ion anodes

Haoyang Wu, University of Science and Technology Beijing, China

**MSE-10**

Title: An intelligent electronic control unit to limit vehicle speed

Srivas M C, B M S College of Engineering, India

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**Best Poster Award Presentation**

**Day 3  September 14, 2016**

**Chattahooche-A**

**Keynote Forum**

Introduction

Title: Generating efficient and tunable white light using electronically coupled nanocrystal and molecular building blocks

Pavle V Radovanovic, University of Waterloo, Canada

Title: The scientific adventure of packing: From space saving to material design

Ho-Kei Chan, Harbin Institute of Technology, Shenzhen, China

Sessions:

- Mining, Metallurgy and Materials Science
- Surface Science and Engineering
- Biomaterials and Tissue Engineering
- Materials Chemistry and Physics
- Electrical, Optical and Magnetic Materials

Session Chair: Padmaja Guggilla, Alabama A&M University, USA
Session Chair: Nezar H Khdary, King Abdulaziz City for Science and Technology, Saudi Arabia

Title: Effects of ionic irradiation on PMN-PT ferroelectric materials for space applications

Padmaja Guggilla, Alabama A&M University, USA

Title: Super high surface area mesoporous carbon for arsenic removal from ground water

Nezar H Khdary, King Abdulaziz City for Science and Technology, Saudi Arabia

Networking & Refreshments

Title: Effect of tempering time on strength and toughness of a ultra-low C medium Mn steel

Hong-Yan Wu, Northeastern University, China

Title: Soft nanomaterials of POSS-based copolymer for stone arts conservation

Ling He, Xian Jiaotong University, China

Title: Dielectric study of hydrogen sulphate (AHSO₄ and BHSO₄, A= Sodium, B= Potassium) crystals

Azha Periasamy, Bharathiar University, India

Title: Generator retaining ring steel(Mn18Cr18N) prepared by powder metallurgy

Shubin Ren, University of Science and Technology Beijing, China

Title: Biocompatibility and human osteoblast response to template-assisted electrohydrodynamic atomized interlocked ceramic patterns on curved 3D metallic substrates for medical implants

Anouska Nithyanandan, University College London, United Kingdom

Panel Discussions

Memento Presentation to Organizing Committee Members

Lunch Break
Session Chair: Sampath Kumar M C, B.M.S. College of Engineering, India
Session Chair: Veena Prasad, Centre for Nano and Soft Matter Sciences, India

**Session Introduction**

**Title: Application of cleaner development mechanisms**
Sampath Kumar M C, B.M.S. College of Engineering, India

**Title: Azo substituted achiral bent-core liquid crystals: photo-induced studies in B_7 and B_5 mesophases**
Veena Prasad, Centre for Nano and Soft Matter Sciences, India

**Title: Mechanically deformable and programmable nanoscale surface textures with tunable wetting and mechanical properties**
Wei Li Lee, Massachusetts Institute of Technology, USA

**Title: The study of fatigue property of S500LF wheel spoke steel**
Cai-Ru GAO, Northeastern University, China

**Title: A low-C 5-Mn ultra-heavy plate steel with high microstructural homogeneity and excellent strength - toughness combination**
Jun Hu, Northeastern University, China

**Title: Characterization of plasma sprayed CNT reinforced alumina coatings on ASME-SA213-T91 boiler tube steel**
Buta Singh Sidhu, IKG Punjab Technical University, India

**Title: Parametric investigations into manufacturing of magnetic abrasives by sintering process**
Balkar Singh, IKG-Punjab Technical University, India

**Young Research Forum**

**Title: Fracture toughness of austenitic stainless steel welds for ultra-high vacuum and cryogenic applications**
Ignacio Aviles Santillana, CERN, Switzerland

**Title: Synthesis and luminescence properties of pyrophosphate phosphors doped with rare earth**
Wafa Hami, Cadi Ayyad University, Morocco

**Panel Discussions**

**Special Appreciation Awards**

**Refreshments**
Scientific Program

6th International Conference and Exhibition on
BIOSENSORS & BIOELECTRONICS
September 22-23, 2016   Phoenix, USA
**Scientific Program**

**Day 1   September 22, 2016**

**Keynote Forum**

**Introduction**

*Title: Advances in terahertz spectroscopy nano-scanner and sub-surface 3D imaging for biomaterial*

Anis Rahman, Applied Research & Photonics Inc., USA

**Networking & Refreshment Break**

*Title: Biosensors for genes, pathogens, parasites, biomarkers and toxins*

Raj Mutharasan, Drexel University, USA

**Session:**

- Biosensors
- Biosensors Applications
- Transducers in Biosensors
- Bioelectronics
- Biosensors for Imaging
- Environmental Biosensors
- Gas Sensors

**Session Introduction**

*Session Chair: Mahmoud Almasri, University of Missouri, USA*

*Session Co-chair: Jeroen De Buck, University of Calgary, Canada*

**Title: Turning the glucose sensor into a versatile point-of-care platform for the detection of a wide range of biological analytes*

*Jeroen De Buck, University of Calgary, Canada*

**Title: An impedance biosensor for rapid detection of low concentration of escherichiacoli O157:H7***

*Mahmoud Almasri, University of Missouri, USA*

**Group Photo**

**Lunch Break**

*Title: Translating biosensors to market at the university*

Jeffrey T La Belle, Arizona State University, USA

*Title: Shear horizontal surface acoustic wave sensors for rapid detection of enterohemorrhagic escherichia coli*

Justin T Baca, University of New Mexico, USA

*Title: Interferometric biosensors for advanced Point-of-Care diagnostics*

Ana Belen Gonzalez-Guerrera, Catalan Institute of Nanoscience and Nanotechnology, Spain

*Title: Optical and electrical properties of bacteria were based bio-detector for heavy metals (CdCl₂ and NiCl₂) pollutants*

Al-Shanawa Maytham Abdala Ali, University of Basra, Iraq

*Title: Pedot: Pss and gold nanocomposite activated electrochemical sensor for the recognition of fungal DNA*

Sabo Wada Dutse, Hussaini Adamu Federal Polytechnic, Nigeria

**Networking & Refreshment Break**

**Young Researchers Forum**

*Title: Wearable device for pH monitoring in wounds*

Paola Fanzio, Delft University of Technology, Netherlands

*Title: Tuning the selectivity of nitrogen doped carbon nanotubes using ionic liquid towards electrochemical sensing of dopamine*

Anju Joshi, Indian Institute of Technology, India

**Panel Discussion**

**Day 2   September 23, 2016**

**Hall Name**

**Keynote Forum**

*Title: Biomedical and environmental sensing applications of lateral wave vector response to refractive index*

Kevin L Lear, Colorado State University, USA

**Networking & Refreshment Break**
Title: Biomaterials as biosensors for microbial biomarkers in human tears and saliva: Proof of concept
Mouad Lamrani, Menicon Co., Ltd R&D, Geneva, Switzerland

Title: Backscattering interferometry marries aptamer-based assays to enable quantitation of nerve agent metabolites and human cytomegalovirus in urine at clinical relevant levels
Darryl J Bornhop, Vanderbilt University, USA

Session: A to Z of a terahertz spectroscopy and imaging experiment
by Anis Rahman, Applied Research & Photonics, Inc., USA

Lunch Break

Session:
DNA Chips and Nucleic acid Sensors | Photonic Sensor Technologies | Biosensing Technologies | Bioinstrumentation | Advancement in Nanotechnology | BioMEMS/NEMS

Session Chair: Kevin L Lear, Colorado State University, USA

Session Introduction

Title: Split deoxyribozyme sensors for highly selective analysis of nucleic acids
Yulia V Gerasimova, University of Central Florida, USA

Title: Capacitive sensor for respiratory monitoring
Victoria Wang Yue, Hill-Rom Services Private Limited, Singapore

Young Researchers Forum

Title: The BIOFOS-LoC: Microring resonator based biophotonic system for food analysis
George Tsekenis, Biomedical Research Foundation of the Academy of Athens, Greece

Networking & Refreshment Break

Title: Development toward a multi-marker and label-free platform sensor technology using electrochemical impedance spectroscopy and nanomaterials
Chi Lin, Arizona State University, USA

Title: Automated single cell arrays based on magnetophoretic circuits
Roozbeh Abedini-Nassab, Duke University, USA

Poster Session
Award Ceremony

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Biosensors & Bioelectronics
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