Tentative Program

5th International Conference on

Physical and Theoretical Chemistry

October 11-13, 2018 Edinburgh, Scotland

Theme: Exploring the Emerging Trends in the Realm of Physical and Theoretical Chemistry

For available speaker slots

physicalchemistry@chemistryconference.org

19+ Interactive Sessions

15+ Keynote Lectures

75+ Plenary Lectures

5+ Workshops

Conference Secretariat

One Commerce Center-1201, Orange St. #600, Wilmington, Zip 19899, Delaware, USA

2360 Corporate Circle, Suite 400 Henderson, NV 89074-7722, USA

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Email: physicalchemistry@chemistryconference.org ;theoreticalchemistry@chemistryconference.org

5th International Conference on

Physical and Theoretical Chemistry

October 11-13, 2018 Edinburgh, Scotland

Program at a Glance

Day 1

Morning Sessions	Reception/Registration	08.00-09.00	
		Time	General Session
		09.00-09.15	Inaugural Address
	Least of 3 Keynote/Plenary Talks	09.15-09.45	Keynote/Plenary Talk 1
		09.45-10.15	Keynote/Plenary Talk 2
		10.15-10.45	Keynote/Plenary Talk 3
	Panel Discussions/Group Photo		
	Coffee/Tea Break 10.45-11.00 (Networking)		
	11.00-12.40		5 Speakers (20 Mins Each)
Evening Sessions	Lunch Break 12.40-13.30		
	13.30-15.30		5 Speakers (20 Mins Each)
	Coffee/Tea Break 15.30-15.45 (Networking)		
	15.45-17.25		5 Speakers (20 Mins Each)

Day 2

Morning Sessions		Time	Session 1	Session 2
	09.00-10.40		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Evening Sessions	Lunch Break 12.35-13.25			
	13.25-15.05		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Poster Sessions			
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)

DAY 3

Morning Sessions		Time	Session 1	Session 2
	09.00-10.40		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Coffee/Tea Break 10.40-10.55 (Networking)			
	10.55-12.35		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
Evening Sessions	Lunch Break 12.35-13.25			
	13.25-15.05		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)
	Coffee/Tea Break 15.05-15.20 (Networking)			
	15.20-17.00		5 Speakers (20 Mins Each)	5 Speakers (20 Mins Each)

Awards & Closing Ceremony

NOTE: Program Shedule is subject to change with final allotment of the speaker slots

For more Details PS: https://physicalchemistry.conferenceseries.com/

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Note: *Workshops and Symposia slots are available. To book slot for Workshop and Symposium send us the proposal.*

Call for Abstract: *http://physicalchemistry.conferenceseries.com/call-for-abstracts.php*

Registration: *http://physicalchemistry.conferenceseries.com/registration.php*

Abstract Submission: *http://physicalchemistry.conferenceseries.com/abstract-submission.php*

E-Poster: *http://physicalchemistry.conferenceseries.com/eposter-presentation.php*

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Major Scientific Sessions

- Theoretical and Computational Chemistry
- Physical Chemistry: A Molecular Approach
- Physical Chemistry of Macromolecules
- Chemical Physics
- Chemical Kinetics
- Surface Science
- Femtochemistry
- Spectroscopy
- Photochemistry
- Quantum Chemistry
- Solid-state Chemistry
- Thermochemistry
- Biophysical Chemistry

Best Poster Award

- You will be given about 5-7 minutes to present your poster including questions and answers. Judges may pose questions during the evaluation of the poster
- Judges will even evaluate the student's enthusiasm towards their study, interest and knowledge in the area of their research
- The winners will be announced at the closing ceremony of the conference. The decision of the winner will be withdrawn if the winner/winners is/are not present at the time of announcement
- Apart from the judging time you may also be present at the poster to share your research with interested delegates

Young Researchers Forum

- Present your research through oral presentations
- Learn about career development and the latest research tools and technologies in your field
- This forum will give pertinent and timely information to those who conduct research and those who use and benefit from research
- Develop a foundation for collaboration among young researchers
- The forum will provide an opportunity for collegial interaction with other young investigators and established senior investigators across the globe
- Interact and share ideas with both peers and mentors

General Queries
physicalchemistry@chemistryconference.org

Conference Venue

Edinburgh, Scotland

Contact us
America: Conference Series LLC
Materials Chemistry 2018
One Commerce Center-1201, Orange St. #600,
Wilmington, Zip 19899, Delaware, USA
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Materials Chemistry 2018
Divyasree Building, Raidurg
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Hyderabad 500032, INDIA
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Glimpses of Physical Chemistry Conferences





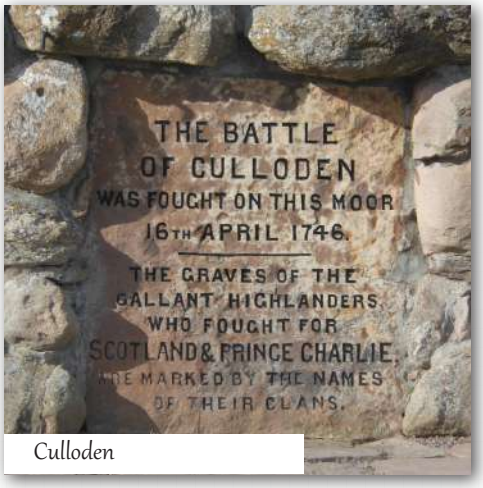




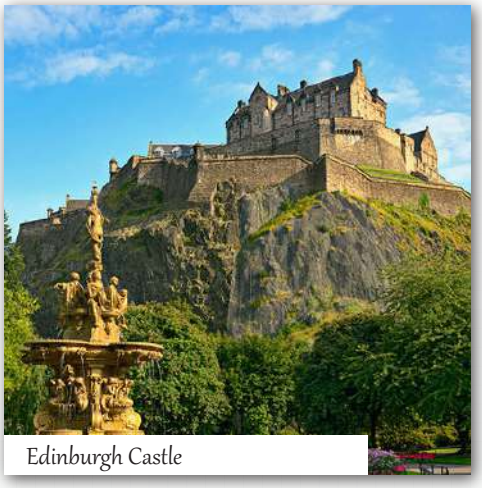



Glimpses of Physical Chemistry Conferences

Edinburgh Attractions



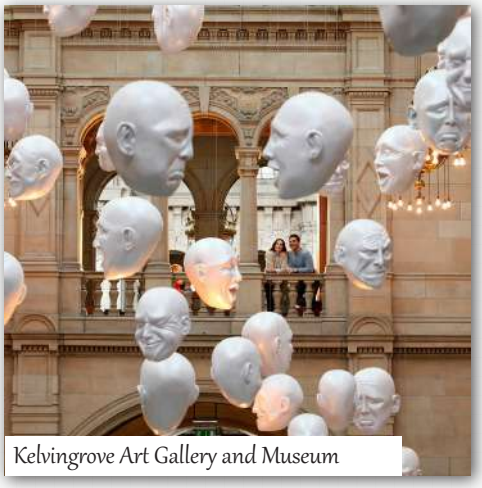
Culloden



Edinburgh Castle

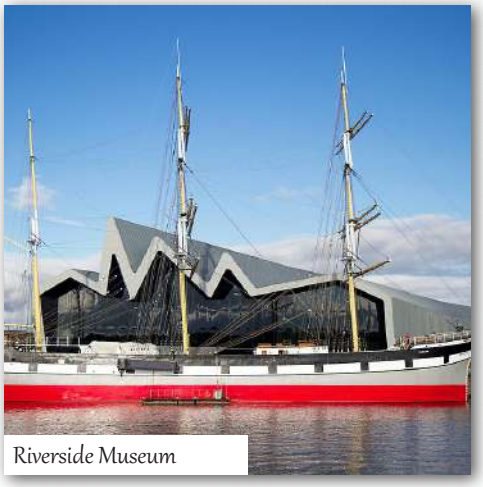
Isle of Arran

Isle of Skye



Kelvingrove Art Gallery and Museum

Loch Lomond



Riverside Museum

Stirling

The Helix

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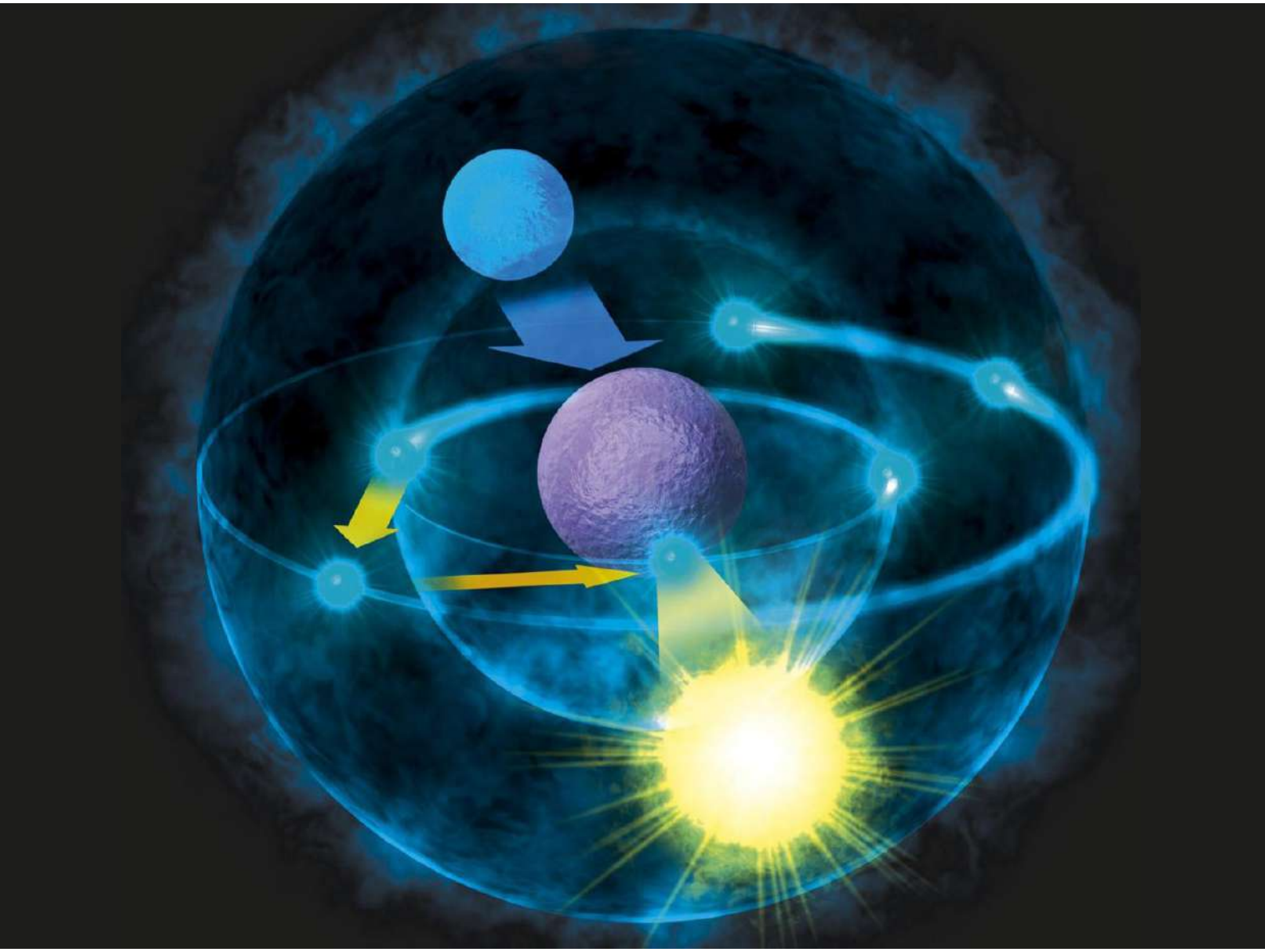
1186th Conference

Scientific Program

4th International Conference on

PHYSICAL AND THEORETICAL CHEMISTRY

September 18-19, 2017 Dublin, Ireland



Conference Series - America

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Registrations

Redwood Suite B

conferenceseries.com

Opening Ceremony

Keynote Forum

Introduction

Title: Excited state lifetimes of isolated iron(ii) complexes and electron injection into TiO_2 film

Stefan Haacke, Université de Strasbourg, France

Title: Electron/Hole Transformation between Two Atomic Layers

Junrong Zheng, Peking University, China

Title: Electrical potential near hydrated solid surface by pH spin probes and labels

Elena G Kovaleva, Ural Federal University

Group Photo

Networking and Refreshments Break

Sessions: Physical Chemistry: A Molecular Approach | Physical Chemistry of Macromolecules

Session Chair: Elena G Kovaleva, Ural Federal University, Russia

Session Co-chair: Alex BOEGLIN, Université de Strasbourg, France

Session Introduction

Title: Sum-frequency generation from chiral bisoxazoline metal complexes: Experiments and dftcalculations

Alex BOEGLIN, Université de Strasbourg, France

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, USA

Title: Electron coupling and electron transfer between two bridged dimolybdenum units

Chun Yuan Liu, Jinan University, China

Title: Experimental and theoretical studies of coordination fullerene polymers conductivity

Krzysztof Winkler, University of Bialystok, Poland

Title: Soft based hypersonic phononics

George Fytas (Talk will be delivered by Yu Cang), Max Planck Institute for Polymer Research, Germany

Title: Theoretical study of the chemical reactions by the combination of quantum mechanical andmolecular dynamics methods

Toshiaki Matsubara, Kanagawa University, Japan

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, USA

Title: What is hidden behind a phase diagram?

Fabienne Berthier, Paris-Sud University-CNRS, France

Lunch Break

Sessions: Theoretical and Computational Chemistry | Chemical Physics | Femtochemistry

Session Chair: Vassiliki-Alexandra Glezakou, Pacific Northwest National Laboratory, USA

Session Co-chair: Ivan Štich, Slovak Academy of Sciences, Slovakia

Session Introduction

Title: Molecular design strategies for task-specific solvent technologies
Vassiliki-Alexandra Glezakou, Pacific Northwest National Laboratory, USA
Title: Magnetism and spin transport in transition metal organometallic clusters
Ivan Štich, Slovak Academy of Sciences, Slovakia
Title: Threshold photoelectron and electron-ion coincidence spectroscopies: Past, present and future
Richard Tuckett, University of Birmingham, UK
Title: Homogeneous nucleation of solid, liquid and glass phases close to revolution
Robert F Tournier, University of Grenoble, France
Title: Recent advances in theoretical spectroscopy from *ab initio* molecular dynamics
Sandra Luber, University of Zurich, Switzerland
Title: *Ab initio* theory for computing sum frequency generation spectra at aqueous interfaces
Tatsuhiko Ohto, Osaka University, Japan
Title: Furious and tranquil radicals: A computational study of sulfur-centred radical chemistry
Isa Degirmenci, Ondokuz Mayis University, Turkey

Networking and Refreshments Break

Title: Design of novel imidazole-based corrosion inhibitors - molecular dynamics simulations and electrochemical studies
Richard M W Wong, National University of Singapore, Singapore
Title: Fragility of metallic liquids manifest in the high temperature structure and cohesive energy
Anup K Gangopadhyay, Washington University in St. Louis, USA
Title: Low energy electrons induced damage to selected dna fragments
Manabendra Sarma, Indian Institute of Technology Guwahati, India
Title: Simulation of DBS, DBS-COOH and DBS-CONHNH$_2$ as hydrogelators
Dafna Knani, ORT Braude College, Israel
Title: An appropriate quantum mechanical approach to understand the anomalous behaviors of liquid alkali metals and group- IV alloys
Alok Satpathy, Bir Bikram Memorial College, India
Title: Atoms and dimers in rare gas crystals: Modelling of the stable trapping sites
Alexei A. Buchachenko, Skolkovo Institute of Science and Technology, Russia
Title: Matrix isolation infrared spectroscopy and structures of weak (O-H···π) and strongly bound (OH···O) binary hydrogen bonded complexes
Pujarini Banerjee, Indian Association for the Cultivation of Science, India
Title: Determination of the isotopic composition of aqueous solutions radiospectroscopic method
Rostislav Y Gerasimov, The Bauman Moscow State Technical University, Russia
Title: High-frequency radiations in water under the action of high-voltage short-wave pulses
Elchin J. Gurbanov, Azersu OJSC, Azerbaijan

Panel Discussion

Day 2 September 19, 2017

Redwood Suite B

Keynote Forum

Title: Abnormal deformation behavior in a super-soft material: Amorphous zeolite imidazolate framework (a-zif)
Wai-Yim Ching, University of Missouri-Kansas City, USA
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, France
Title: Making headway in understanding the rotation-vibration spectrum of protonated methane CH_5^+ -an extremely flexible molecule
Per Jensen, University of Wuppertal, Germany

Networking and Refreshments Break

Sessions: Photochemistry | Solid-state Chemistry | Spectroscopy | Surface Science | Quantum Chemistry | Biophysical Chemistry

Session Chair: Werner PAULUS, University of Montpellier, France
Session Co-Chair: Hideaki Shirota, Chiba University, Japan

Session Introduction

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

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

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

Title: Why is gas phase photolysis of 2-nitrophenol a significant source of OH in the pollutedatmosphere?
Lei Zhu, University at Albany, USA

Title: Intra- and intermolecular strategies to improving photoluminescence quantum yields of n-π* fluorophores capable of harvesting triplet excitons
Youngmin You, Ewha Womans University, South Korea

Title: A computational investigation of the photochemical oxaziridine conversion process of someexperimentally analyzed small-chain conjugated nitrones
Anjan Chattopadhyay, BITS Pilani, India

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

Lunch Break

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

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

Title: New Aspects of an old class of compounds: Tetrelphosphides and their thermoelectric performance
Ulrich Wedig, Max Planck Institute for Solid State Research, Germany

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

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

Title: Particle growth, assembly and extended particle-solvent interactions in deep eutectic solvents
Joshua Hammons, Lawrence Livermore National Laboratory, USA

Networking and Refreshments Break

Poster Presentations

PC001 **Title: Modelling of electronic spectra of matrix-isolated atoms: Comparison of theoretical approaches**
Dmitry S Bezrukov, Skolkovo Institute of Science and Technology, Russia

PC002 **Title: Inversion of the lowest singlet excited states induced by the presence of the silicon atom in a styrylcarbazole derivative**
Karolina Rachuta, Adam Mickiewicz University, Poland

PC003 **Title: Single pulse shock tube investigation of the inter-isomerization and decomposition mechanism of quinoline and isoquinoline. Experimental results and computer simulation**
Faina Dubnikova, The Hebrew University of Jerusalem, Israel

PC004 **Title: Exciton-mediated electrochemical degradation of blue-phosphorescent organic light-emitting devices**
Sinheui Kim, Ewha Womans University, South Korea

PC005 **Title: Circularly polarized phosphorescence from cyclometalated Ir(III) complexes having axially chiral ligands**
Gyurim Park, Ewha Womans University, South Korea

PC006 **Title: Very fast and surprisingly accurate GIAO-mPW1PW91/3-21G//PM7 scaling factor for 13C NMR chemical shifts calculation**
Fabio L P Costa, UFG-REJ, Brasil

Young Researchers Forum

Title: Interactions between sodium fire aerosols and fission products- a theoretical chemistry and experimental approach
Ankita Jadon, University of Lille 1, France
Title: Strongly red-shifted photoluminescence band induced by molecular twisting in cyanine (cy3) dye films
Surendra B Anantharaman, Swiss Federal Laboratories for Materials Science and Technology, Switzerland
Title: Mechanistic insight towards the activation of aerobic oxidative coupling reactions of alcohols on nanoporous gold
Wilke Dononelli, University of Oldenburg, Germany
Title: Correlations between structural and optical properties of peroxy bridges from first principles
Blaž Winkler, University of Nova Gorica, Slovenia
Title: Tolerance factors for organic-inorganic perovskites: Applicability only for high temperature phases
Markus Becker, Carl von Ossietzky University, Germany
Title: Multiphoto-fragmentation of molecules: REMPI and VMI of HBr
Arnar Hafliðason, University of Iceland, Iceland
Title: Characterization of protein absorption on gold nanoparticles by scattering correlationspectroscopy
Hanane Moustaoui, Université Paris 13, France

Awards & Closing Ceremony

Break Out @ Fahrenheit Suite

Day 2 September 19, 2017

Sessions: Photochemistry | Solid-state Chemistry | Spectroscopy | Surface Science | Quantum Chemistry | Biophysical Chemistry
Session Chair: Titus A Beu, Babeș-Bolyai University, Romania
Session Co-Chair: Shigeharu Kittaka, Okayama University of Science, Japan

Session Introduction

Title: CHARMM force field and molecular dynamics simulations of polyethylenimine chains
Titus A Beu, Babeș-Bolyai University, Romania
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, Japan
Title: 57-Fe mössbauer spectroscopy on Fe-Mg-O nanocomposite particles grown by a novel chemical vapor synthesis method
Werner Lottermoser, Salzburg University, Austria
Title: *In situ* hard X-ray photoelectron study of O_2 and H_2O adsorption on Pt nanoparticles
Masaharu Oshima, University of Tokyo, Japan
Title: Pyridinium salts as photoinduced electron traps
R Marshall Wilson, Bowling Green State University, USA
Title: Unpicking vibrational and vibrational torsional couplings in substituted benzenes
Timothy G Wright, University of Nottingham, UK
Title: Reactive surface sites at metal oxide nanoparticles: From fundamental studies to potential medical application
Slavica Stankic, Paris Institute of Nanosciences-CNRS, France

Lunch Break

Title: An embedding technique based on a strategic use of atomic pseudo potentials
Yannick Carissan, Aix-Marseille University, France
Title: Theoretical study of magnetic properties in redox-active ruthenium complexes
Corentin BOILLEAU, Polish Academy of Sciences, Poland
Title: Water interaction and dissociation on the (0001) hematite surface: A DFT+U approach
Fabio R Negreiros, Federal University of ABC, Brazil
Title: Polymer-brush lubrication
Torsten Kreer, Leibniz Institute for Polymer Research Dresden e. V. (IPF), Germany
Title: Excited-state symmetry breaking of linear quadrupolar chromophores: A transient absorption study
Nadia Dozova, Pierre and Marie Curie University, France
Title: Phase equilibrium of the melt-vapor in the tellurium-sulfur system
Valery N Volodin, Institute of Metallurgy and Ore Benefication, Kazakstan

Networking and Refreshments Break

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Scientific Program

European Chemistry Congress

June 16-18, 2016 Rome, Italy

Hosting Organization: Conference Series LLC

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Heathrow Stockley Park Lakeside House, 1 Furzeground Way, Heathrow, UB11 1BD, UK, Tel: +1-800-216-6499

Email: eurochemistry@insightconferences.com

Day 1 June 16, 2016

Registrations

Olimpica 1 & 2

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Opening Ceremony

Keynote Forum

Title: Biomacromolecule poly[3-(3,4-dihydroxyphenyl)glyceric acid] with potential therapeutic effect

Vakhtang V Barbakadze, Tbilisi State Medical University, Georgia

Title: Carbohydrate microarrays for study of glycan associated biological events

Injae Shin, Yonsei University, Korea

Track 1: Fundamentals of Organic Chemistry
Track 2: Inorganic Chemistry
Track 3: Analytical Chemistry

Session Introduction

Session Chair: Ionel I Mangalagiu, "Al.I.Cuza" University of Iasi, Romania

Session Co-chair: Maia Merlani, Tbilisi State Medical University, Georgia

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: Quantification of valproic acid in human plasma using high performance liquid chromatography-photodiode array
Yahdiana Harahap, Universitas Indonesia, Indonesia

Title: Validation guidelines of hydralazine hydrochloride spectrophotometric method
Laila A Al-Shatti, The Public Authority for Applied Education and Training, Kuwait

Group Photos

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, "Al.I.Cuza" University of Iasi, Romania

Title: Analysis of *Botulinum* Neurotoxin A (BoNT/A) in pharmaceutical products using MALDI-TOF and LC-MS/MS
Yiu-chung Wong, Hong Kong Government Laboratory, Hong Kong
Title: Synthesis of natural biologically active poly[3-(3,4-dihydroxyphenyl)-glyceric acid] analogues
Maia Merlani, Tbilisi State Medical University, Georgia
Title: Preparation and synthetic application of 1-Azoniabicyclo[n.1.0]alkanes
Hyun-Joon Ha, Hankuk University of Foreign Studies, Korea
Title: Sulfur based metal complexes for synthesis of semiconductor nanoparticles
Makwena Justice Moloto, Vaal University of Technology, South Africa
Title: Functionalization of Keggin type nickel substituted phosphotungstate by immidazole: Synthesis, characterization and catalytic activity
Anjali Patel, The M S University of Baroda, India

Coffee Break

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

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

Day 2 June 17, 2016

Olimpica 1 & 2

Keynote Forum

Title: Selectivity control of Au-catalyzed oxidation of glycerol in water
Bo-Qing Xu, Tsinghua University, China

Title: Functions of nucleic acids with non-canonical structures
Naoki Sugimoto, Konan University, Japan

Title: Pyrrolo[3,2-b]pyrroles-new electron-rich functional π-electron system
Daniel T Gryko, Polish Academy of Sciences, Poland

Coffee Break

Poster Presentations

ECPP001	**Title: Unnatural fluoro-oxindole alkaloids produced by *Uncaria guianensis* plantlets**
	Adriana A Lopes, Universidade de Ribeirão Preto, Brazil

ECPP002	**Title: Spectrophotometric investigation of early lanthanide(III) porphyrin complexes**
	Melitta Patrícia Kiss, University of Pannonia, Hungary
ECPP003	**Title: Photoinduced heterogenous catalysis with TiO_2 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 2*H*-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: Lysosomal 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 $ScCO_2$ 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 dihydrofuropyrane compunds**
	Asli Ustalar, Kocaeli University, Turkey
ECPP017	**Title: Signaling of Hg(II) ions by reaction-based probes based on depro-tection 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, Buketov 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 CO_2 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 Introduction

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

Lunch Break

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 Introduction

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, NMR²
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

Coffee Break

Poster Presentations

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 Tomsik, 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 compouds 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-pozitive 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-pozitive and gram-negative bacteria**
	C L Popa, National Institute of Materials Physics, Romania

ECPP046	**Title: The Nitrogen Cycle in air, soil and water**
	Reza Pashaei, University of Siena, Italy
ECPP047	**Title: Tunable magnetic property and millimeter wave absorption property of ε-Fe_2O_3 by metal substutution**
	Asuka Namai, The University of Tokyo, Japan
ECPP048	**Title: Anticonvulsant activity of newly synthesized benzoylhydrazones with 2*H*-chromene and coumarin moieties in ICR mice**
	Valentin Karabelyov, Medical University of Sofia, Bulgaria
ECPP049	**Title: Perpendicularly-oriented microdomain ordering of lamella-forming PS-*b*-PMMA thin film observed by tuning film thickness**
	Wooseop Lee, Yonsei University, Republic of Korea
ECPP050	**Title: Phase transition behavior of asymmetric polystyrene-b-poly(2-vinylpyridine) thin films under strong interfacial Interactions : A stable hexagonally modulated layer (HML) structure**
	Sungmin Park, Yonsei University, Republic of Korea
ECPP051	**Title: Interaction between the hydroxyl functionalized PS and dPS in dry brush system**
	Seongjun Jo, Yonsei University, Republic of Korea
ECPP052	**Title: Synthesis and characterization of new quaternary niobium selenites**
	Bongsu Kim, Chung-Ang University, Republic of Korea
ECPP053	**Title: Polar noncentrosymmetric $ZnMoSb_2O_7$ and nonpolar centrosymmetric $CdMoSb_4O_{10}$: d_{10} transition metal size effect influencing the stoichiometry and the centricity**
	Hongil Jo, Chung-Ang University, Korea
ECPP054	**Title: Effective removal of rare earth metals using surface-active agent**
	Dzhevaga Natalia Vladimirovna, National Mineral Resources University, Russia
ECPP055	**Title: Thermodynamic characteristics of sorption extraction of anionic complexes of erbium with trilon B on weakly basic anionite**
	Ponomareva Mariya, National Mineral Resources University, Russia
ECPP056	**Title: The interaction of 1-nitro- and 1-bromo-1-nitro-3,3,3-trifluoro(chloro)propenes with phenylazide**
	Alena Kuzhaeva, National Mineral Resources University, Russia
ECPP057	**Title: Modern glassy phosphate fertilizers**
	Kirill Karapetian, National mineral resources university, Russia

Speaker Presentations to be continued

Title: Arsenic speciation studies in *Oriza sativa* L. grown in wahalkada, Sri Lanka
Samanthika R Hettiarachchi, The Open University of Sri Lanka, Sri Lanka
Title: Effect of preanalytical techniques and variables on plasma ammonia determination
Ibraheem M Al-Qurashi, Taif University, Saudi Arabia
Title: 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
Zahid O Alibrahim, Wolverhampton University, United Kingdom
Title: Ion-imprinted thermoresponsive fluorescent hydrogel for removal and determination of uranyl ion
Elif Gökçe Atçakan, Istanbul Technical University, Turkey
Title: Electrophilic phosphinidene complex affords novel organophosphorus compounds
Arif Ali Khan, Guru Gobind Singh Indraprastha University, India
Title: Synthesis of composite materials for chromatographic column separations
Amjad Mumtaz Khan, Aligarh Muslim University, India
Title: Regulation of electron transfer in nitric oxide synthase by conformational dynamics
Changjian Feng, University of New Mexico, USA

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

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
Andreia 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, Universite 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, Universite de Lorraine, France
Title: First-principles calculation of ε-Fe_2O_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_2CO_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 prinicple 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

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Registrations

Melia Meeting 4 & 5

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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 $NaYF_4$ 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 thermoresponsive 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

Track 3: Role of Materials Chemistry in Pharmacy
Track 4: Design and Synthesis of Materials

Session Chair: Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland

Session Co-chair: Bruno Bureau, Institut Universitaire de France, France

Title: Synthesis of the first POSS cage - anthracycline nano-conjugates
Wlodzimierz Stanczyk, Polish Academy of Sciences, Poland
Title: Synthesis of fine-controlled subano-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 Joaquín 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

Day 2 April 01, 2016

Melia Meeting 4 & 5

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 monossacharides
M. Gracia García-Martín, 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

PPMC002	**Title: Inclusion complexes of propiconazole nitrate with substituted β-cyclodextrins: Synthesis, characterization and in silico assessment** **Narcisa Laura Marangoci**, Petru Poni Institute of Macromolecular Chemistry, Romania
PPMC003	**Title: Silver nanoclusters doped in mordenite zeolite as photocatalysts toward pesticides** **Imad A Abu-Yousef**, American University of Sharjah, UAE
PPMC004	**Title: Improving PLA properties through the incorporation of electrospun nanofibers based on PVA and cellulose nanowhiskers** **Carol Lopez de Dicastillo**, Santiago de Chile University, Chile
PPMC005	**Title: Antimicrobial supercritical impregnation of nanocomposites for food packaging** **Maria Jose Galotto**, Santiago de Chile University, Chile
PPMC006	**Title: Preparation and characterization of chitosan-co-hyaluronic acid cryogels** **Tugce Kutlusoy**, Marmara University, Turkey
PPMC007	**Title: Synthesis and characterization of high performance polyimide nanofibers and application on lithium-ion batteries** **Emre Aytan**, Marmara University, Turkey
PPMC008	**Title: Molecularly imprinted polymeric nanoparticle: Preparation and characterization** **Merve Yasar**, Marmara University, Turkey
PPMC009	**Title: Novel macroporous poly-pickering-HIPE composites for heterogeneous photocatalysis** **Elif Yüce**, Yalova University
PPMC010	**Title: Poly-pickering-HIPEs as heterogeneous photocatalysts** **Fatma Nur Parın**, Yalova University

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

Title: Solute effect on grain boundary migration in ultrafine/nanostructured materials
Yan Huang, Brunel University London Institute of Materials and Manufacturing, UK
Title: Application of ultra-thin flexible glass sheets to microfluidic devices
Yo Tanaka, RIKEN, Japan
Title: Nanoscale strategies towards development of advanced Mn-based permanent magnets
Felix Jimenez-Villacorta, Materials Science Institute of Madrid (ICMM-CSIC), Spain
Title: Sialon nano-composites matrix reinforced by cubic boron nitride prepared by using spark plasma sintering
Abbas Saeed Hakeem, King Fahd University of Petroleum & Minerals, Saudi Arabia
Title: Segregation of ions in deliquesced droplets of alkali halide nano-crystals on SiO_2
Kenta Arima, Osaka University, Japan
Title: Nanomechanics with nanotubes and fullerene-like-WS_2 (MoS_2)
Reshef Tenne, Weizmann Institute, Israel

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 WS_2 and nanowires of $Mo_6S_2I_8$
Johann G Meier, ITAINNOVA Instituto Tecnológico de Aragón, Spain

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Opening Ceremony

Keynote Forum

Introduction

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

Group Photo @ Chattahooche-A

Networking & Refreshments Break

Title: A multi-layered composite ensuring harmless to the human body and implant longevity of hip prosthesis in orthopedics

Masaru Matsuo, Dalian University of Technology, China

Sessions:

Materials Science and Engineering | Computational Materials Science | Polymer Technology

Session Chair: Matthew E Edwards, Alabama A&M University, USA

Session Chair: Michael F Herman, Tulane University, 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 subano-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 $SnGa_4Q_7$ (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

Chattahooche-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
Kenta Miura, Gunma University, Japan
Title: Alumina-based nanocomposites using graphite nanoplatelets as reinforcement
Syed Nasimul Alam, National Institute of Technology Rourkela, India
Title: $BiVO_4$ and WO_3 nanophotocatalysts: Water-splitting and environmental applications
G. T. Chandrappa, Bangalore University, India
Title: Null current hysteresis for acetylacetonate based perovskite solar cells as electron extraction layer
Abd. Rashid bin Mohd Yusoff, Kyung Hee University, South Korea

Networking & Refreshments Break

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

Young Research Forum

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 $CdCr_2O_4$
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 Cr_2O_3 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 nanocystalline 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

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

Session Introduction

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 ($AHSO_4$ and $BHSO_4$ A= Sodium, B= Potassium) crystals
Azha Periasamy, Bharathiar University, India
Title: Generato 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_2 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

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692nd Conference

Scientific Program

6th International Conference and Exhibition on

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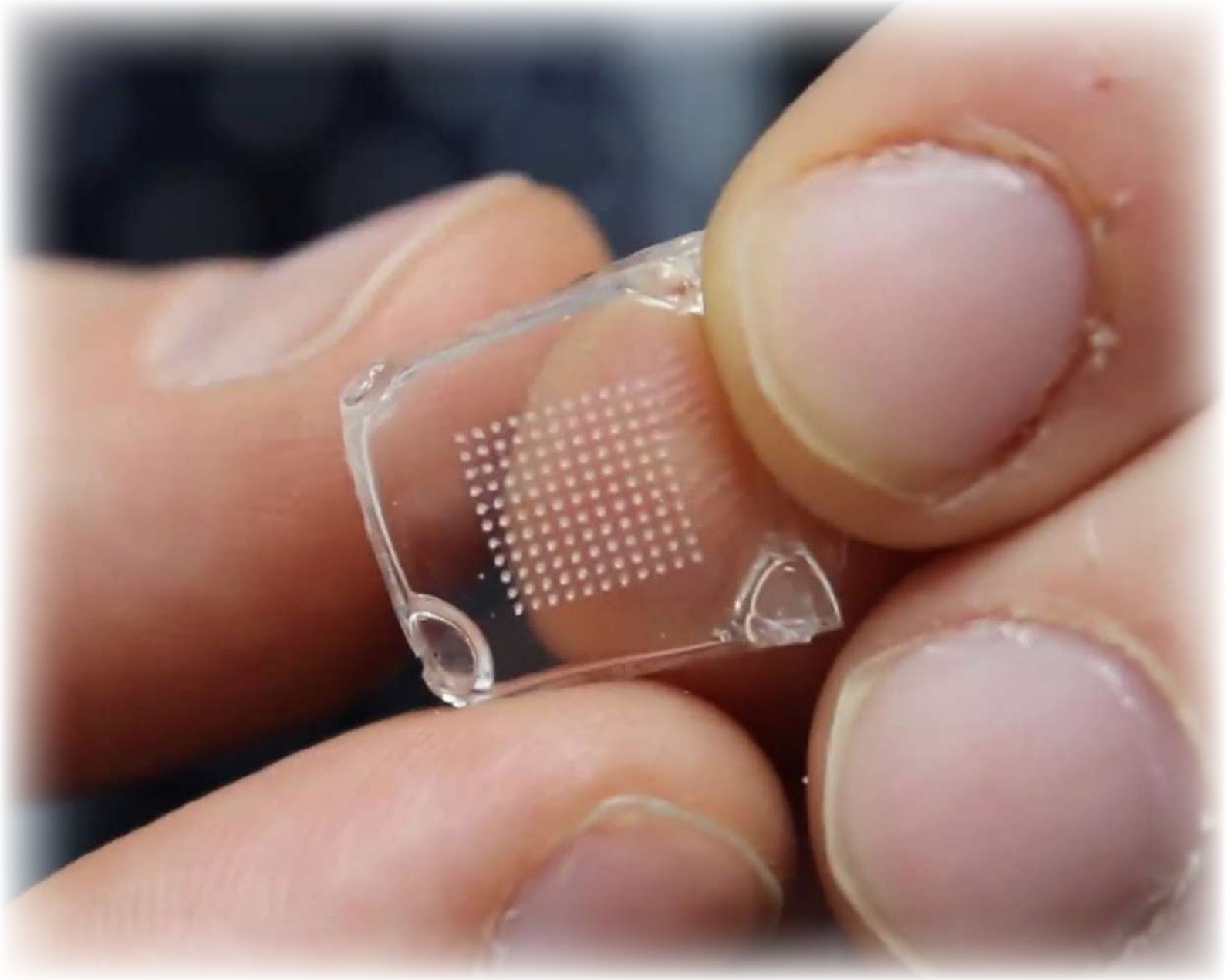

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Scientific Program

Day 1 September 22, 2016

Registrations

Hall Name

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Opening Ceremony

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 unviersity
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-Guerrero, Catalan Institute of Nanoscience and Nanotechnology, Spain
Title: Optical and electrical properties of bacteria were based bio-detector for heavy metals ($CdCl_2$ and $NiCl_2$) 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 cytomegalovirusin urine at clinical relevant levels
Darryl J Bornhop, Vanderbilt University, USA

Workshop on **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 Introduction

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

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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