5th International Conference on

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November 26-28, 2018 Los Angeles, USA

Tentative Scientific Program

Day 1 November 26, 2018	
08:00-08:45	**Registrations**
08:45-09:00	**Opening Ceremony**
Keynote Forum	
9:00-09:45	Title: Optical fourier holography with thin films of bacteriorhodopsin for cancer diagnostics **D V G L N Rao,** University of Massachusetts, USA
09:45-10:30	**Title:** Nature has a powerful pick-up tool, supported by a simple universal mechanism, the Stark-effect Induced Gailitis resonance **Chi Yu Hu,** California State University, USA
Coffee Break 10:30-10:50	
10:50-11:35	**Title:** Advanced materials for solar photoelectrochemical fuel generation **Oomman K Varghese,** University of Houston, USA
11:35-12:20	**Title:** Magnetars by condensed matter physics **Qiu-he Peng,** Nanjing University, China
12:20-13:05	**Title:** High temperature solar cells **Dieter M Gruen,** Dimerond Technologies, LLC, USA
Lunch Break 13:05-14:05	
Plenary Talk	
14:05-15:05	**Title:** Emergent magnetism in titanium nitride **Barbara A Jones,** IBM Research–Almaden, USA
Group Photo 15:05-15:10	
Condensed Matter Physics | Solid State Physics | Theoretical Physics| Organic Electronics | Nanomaterials and Nanotechnology	
	Session Introduction
Session Chair: Debabrata Saha, Independent Research Scientist, USA	
Session Co-Chair: Jan Smotlakha, Joint Institute for Nuclear Research, Russia	
15:10-15:35	**Title:** Natural field: A link missing in contemporary physics **Debabrata Saha,** Independent Research Scientist, USA
15:35-16:00	**Title:** High efficiency organic photovoltaics: Current and beyond **Sheng-Yung Chang,** University of California Los Angeles, USA
Coffee Break 16:00-16:20	
16:20-16:45	Title: Chromatic and polychromatic radiation for crystal orientation **Danut Dragoi,** Non-affiliated Senior Scientist, USA
16:45-17:10	**Title:** Estimating vibrational lifetime and boundary conductance **Hari Datt pandey**, University of California, USA
17:10-17:35	**Title:** Effect of the grain boundaries on the electronic and mechanical structure of graphene **Jan Smotlakha**, Joint Institute for Nuclear Research, Russia
17:35-18:00	**Title:** Electronic, mechanical and thermoelectric properties of Gd -filled ternary skutterudites **U P Verma,** Jiwaji University, India
Panel Discussion	

Day 2 November 27, 2018	
Keynote Forum	
09:15-10:00	**Title:** Quenching of photoluminescence in graphene hybrids **Mahi R Singh**, The University of Western Ontario, Canada
10:00-10:45	**Title:** Chemical nanoanalyses of Si grain boundaries towards the fabrication of high- functional Si solar cells **Yutaka Ohno,** Tohoku University, Japan
Coffee Break 10:45-11:00	
11:00-11:45	**Title:** Appearance of anisotropic optical absorption, ground state energy, and crystal growth of CdSe quantum dots adsorbed on the (001) and (102) surfaces of anatase-TiO2 **Taro Toyoda,** The University of Electro-Communications, Japan
11:45-12:30	**Title:** CoFeNbZ (Z = Al, Si and In) quaternary Heusler alloys – A first principle study **Rita John,** University of Madras, India
Lunch Break 12:30-13:30, Group Photo	
13:30-14:15	**Title:** Influence of Mn substitution on magnetoresistance and magnetic properties of (Fe1-xMnx)75P15C10 alloy ribbons **Feroz Alam Khan,** Bangladesh University of Engineering and Technology (BUET), Bangladesh
Plenary Talk	
14:15-15:15	**Title:** Implications of the link between the periodic table and the standard model **John Owen Roberts,** Independent Researcher, USA
Condensed Matter Physics | Materials physics | Nanomaterials and Nanotechnology	
	Session Introduction
Session Chair: Barbara A Jones, IBM Research–Almaden, USA	
Session Co-Chair: Gennadiy Filippov, Cuvash State Pedagogical University, Russia	
15:15-15:40	**Title:** Molecular dynamics investigation of surface potential and electro-kinetic phenomena at the amorphous silica/water interface **Si-Han Chen,** The Ohio State University, USA
15:40-16:05	**Title:** Moldable soft polymers through topology **Thomas E Kodger,** Wageningen University & Research, The Netherlands
Coffee Break 16:05-16:20	
16:20-16:45	**Title:** Electronic properties of Mn-decorated silicene and other 2D materials **Barbara A Jones,** IBM Research–Almaden, USA
16:45-17:10	**Title:** Density matrix in description of the collision of atomic particle with solid film **Gennadiy Filippov,** Cuvash State Pedagogical University, Russia
17:10-17:35	**Title:** Seismic Imaging of soils for slope stability in Ngoketunjia divison, north west region Cameroon **Paul Leifeh Njuabeh,** The University Of Bamenda, Cameroon
17:35-18:00	**Title:** Synthesis and analysis of fluorescent silicon nanoclusters in different solvents and their reversible optical and chemical peroperties **Hanieh Yazdanfar,** University of Leicester, UK
Panel Discussion	

Day 3 November 28, 2018	
Keynote Forum	
9:00-09:45	**Title:** On the road to room-temperature superconductivity? **Ivan Božović,** Brookhaven National Laboratory, USA
9:45-10:30	**Title:** Characterization of ferrite nanoparticles and application for theranostics **Yuko Ichiyanagi,** Yokohama National University, Japan
Coffee Break 10:30-10:50	
10:50-11:35	**Title:** Amorphous magnetic films for spintronics **Joseph Poon,** University of Virginia, USA
Condensed Matter Physics | Superconductivity and Superfluidity | Solid State Physics | Materials Physics	
	Session Introduction
Session Chair: I Chávez, Universidad Nacional Autónoma de México, México	
Session Co-Chair: Moussab Harb, King Abdullah University of Science and Technology, Saudi Arabia	
11:35-12:00	**Title:** Cooper pairs in superconductivity in a generalized BEC theory **I Chávez,** Universidad Nacional Autónoma de México, México
12:00-12:25	**Title:** Passage of accele4rated high charged ions through a system of parallel thin films **Gennadiy Filippov,** Cuvash State Pedagogical University, Russia
Lunch Break 12:25-13:25	
13:25-13:50	**Title:** Toward rational design of new photocatalytic materials for solar fuel generation using density functional theory **Moussab Harb,** King Abdullah University of Science and Technology, Saudi Arabia
13:50-14:15	**Title:** Fabrication and characterization of copper doped cadmium sulphide thin film solar cell **Sabur Abiodun Ayinde,** The Federal Polytechnic, Nigeria
14:15-14:40	**Title:** Determination Of mechanical, structural and thermodynamic properties of half-heusler compound (ZrPdPb) in solid state physics **Ogundola Sunday,** Federal College of Education, Nigeria
Poster Presentation	
14:40-15:00	**Title:** Majority carrier modulation using contact area ratio between graphene and liquids for harvesting blue energy **Ruey-Jen Yang,** National Cheng Kung University, Taiwan
Coffee Break 15:00-15:10	
Panel Discussion	
	Awards and Closing Ceremony