

Scientific Program



4th International Conference on
**Condensed Matter
and Materials Physics**

August 16-17, 2018 | London, UK

UK: Conference Series llc LTD
47 Churchfield Road, London, W3 6AY
Toll Free: +1-800-014-8923



DAY-1

August 16, 2018

Meeting Hall: **Bleriot**

08:30-09:00 Registrations

Opening Ceremony **09:00-09:25**

KEYNOTE FORUM

09:25-09:30 Introduction

09:30-10:15 **Title: Recent advances and challenges in thermoelectrics**
Subhendra Dev Mahanti, Michigan State University, USA

10:15-11:00 **Title: Thin film circuits with amorphous oxide thin film transistor**
Sang Yeol Lee, Cheongju University, Republic of South Korea

Networking & Refreshments 11:00-11:20 @ Breakout Area

GROUP PHOTO 11:20-11:30

Sessions: **Materials Physics | Theoretical and Computational Materials Physics | Magnetic Materials and Optical Materials | Semiconductor Materials**

Chair: Subhendra Dev Mahanti, Michigan State University, USA

Co-Chair: Haihan Luo, Shanghai Institute of Technical Physics – CAS, P R China

INTRODUCTION

11:30-11:55 **Title: Study on the infrared optical properties and the microstructure of cesium iodide thin film**
Haihan Luo, Shanghai Institute of Technical Physics – CAS, P R China

11:55-12:20 **Title: Skrymions nucleation in CoFeB amorphous nanodisks: A simulation study**
Mohamed EL Hafidi, Hassan II University of Casablanca, Morocco

12:20-12:45 **Title: Micro texturing TiN and Ag coating for flexible and transparent electronics**
Loik Gence, Pontifical Catholic University of Chile, Chile

12:45-13:10 **Title: CMOS-MEMS accelerometer with gold proof-mass and its application in diagnosis of Parkinson's Disease**
Kazuya Masu, Tokyo Institute of Technology, Japan

Lunch Break 13:10-14:10 @ RBG

14:10-14:35 **Title: New insight in the physics of RMn_2O_5 multiferroics**
Victor Baledent, University of Paris Sud, France

14:35-15:00 **Title: Force field in molecular simulations, limitations, applications and perspectives in different areas of science**
Edgar Nuñez Rojas, National Council of Science and Technology – UAM, Mexico

15:00-15:25 **Title: Polymer composite materials and their application in designs of gas turbine engine**
Sergei V Aliukov, South Ural State University, Russia

15:25-15:50 **Title: Supercurrent and transport properties of mesoscopic SNFS Josephson junction under the injection of spin polarized current**
Golikova T E, Institute of Solid State Physics - RAS, Russia

Networking & Refreshments 15:50-16:10 @ Breakout Area

16:10-16:35 **Title: Can superconductivity persist in arbitrarily small particles?**
Pushan Ayyub, TIFR, India

16:35-16:50 **YRF: Room temperature ferromagnetism in various non-magnetic oxides**
Homnath Luitel, VECC, India

16:50-17:05 **YRF: Interconnection of charge neutrality level with electronic structure and p-d hybridization and its modification upon electronic excitation**
Arkaprava Das, Inter University Accelerator Centre, India

Panel Discussion

DAY-2

August 17, 2018

Meeting Hall: **Bleriot**

KEYNOTE FORUM

09:30-09:35 Introduction

09:35-10:20 **Title: Approaches to the new field of multi-piezo: Ceramics, films and composites**
Chao Nan Xu, National Institute of Advanced Science and Technology, Japan

10:20-11:05 **Title: 2D/SI heterostructures for photonic devices**
Samit K Ray, S N Bose National Centre for Basic Sciences, India

Networking & Refreshments 11:05-11:25 @ Breakout Area

Sessions: Condensed Matter Physics | Soft Condensed Matter Physics | Superconductivity | Nanoscale Physics

Chair: Chao-Nan Xu, National Institute of Advanced Science and Technology, Japan

Co-Chair: Samit K Ray, S N Bose National Centre for Basic Sciences, India

INTRODUCTION

11:25-11:50 **Title: Geometrically frustrated magnetism and quantum atomic properties in hydroxyl salts**
X G Zheng, Saga University, Japan

11:50-12:15 **Title: Primary scaling densities in the critical adsorption of Ising systems**
Zoran Borjan, University of Belgrade, Serbia

12:15-12:40 **Title: Properties of a weakly ionized NO gas sensor based on multi-walled carbon nanotubes**
Yong Zhang, Xi'an Jiaotong University, P R China

12:40-13:05 **Title: The microscopic origin of size-dependent lattice contraction and expansion**
Pushan Ayyub, TIFR, India

Lunch Break 13:05-14:05 @ RBG

14:05-14:30 **Title: Magnetic properties of six-legs spin-S ($S=1/2, 1$) Ising nanotube under the effect of an external field**
Mohamed EL Hafidi, Hassan II University of Casablanca, Morocco

14:30-14:55 **Title: Nonlocal supercurrent in mesoscopic multiterminal SNS Josephson junction**
Golikova T E, Institute of Solid State Physics - RAS, Russia

14:55-15:20 **Title: Synthesis of a stable HCP-FCC mixture phase of the high-entropy superalloys**
 $Al_{0.15}Co_{0.18}Cr_{0.12}Fe_{0.11}Ni_{0.36}Ti_{0.08}$ at high pressure
Chih Ming Lin, National Tsing Hua University, Taiwan

Networking & Refreshments 15:20-15:40 @ Breakout Area

Panel Discussion

Awards & Closing Ceremony

Bookmark your Dates

5th International Conference on

Condensed Matter and Materials Physics

August 01-02, 2019 | Dublin, Ireland

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Website: materialsphysics.physicsmeeting.com