Tentative Program

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4th International Conference on

Condensed Matter and Materials Physics

August 16-17, 2018 | London, UK



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Materials Physics 2018 Invitation

August 16-17 | London, UK

Dear All,

We are extremely delighted to host the 4th International conference on Condensed Matter and Materials Physics.

Materials Physics 2017 Meet was highly successful & enriching and we aim for a bigger sky this time. The Condensed Matter and Materials Physics Series, over years, has become a successful site for the physics & materials research, science & development and envisioning a greater and wider span for advancing the segment of this new science.

We invite your participation for this mega scientific event set to happen in UK this year as we start to prepare the dais for a grand discussion with the theme "Reaching out to the World of Matter, Material and its Physics".

Regards

Organizing Committee Panel

Materials Physics 2018 UK



The Materials Physics 2018 UK conference calls for the newest and healthiest proposals for the Meet from researchers, industrial personnel and pioneering students. This summit is designed to meet every nook and corner research topic related to the advancement in the research and development of Condensed Matter and Materials Physics such as Soft Condensed Matter, Semiconductor Materials, Superconductivity etc.

Organizing Committee

TRACK

Materials Physics | Semiconductor Materials



S. D. Mahanti
Michigan State University,
East Lansing, MI 48824, USA

Biography:

Professor Subhendra. D. Mahanti (S. D. Mahanti) was born in Cuttack, India, on September 24, 1945. He received his B.Sc (Honors in Physics) from Utkal University in 1961, standing 2nd in the University, M.Sc (Physics) from Allahabad University in 1963, standing 1st in the University. After doing research at Allahabad University in an Indo-US project, he went to the United States in 1964 and did his Ph.D. in Theoretical Condensed Matter Physics from the University of California, Riverside (1964-1968). After spending two years at Bell Telephone Laboratories, Murray Hill, New Jersey, he joined The physics faculty at Michigan State University in 1970, where he has been a full Professor since 1982 He served as the Associate Director of Center for Fundamental Research and the Director of the physics graduate program. He has been visiting professor at several leading institutions in Europe and India.

TRACK

Condensed Matter Physics | Nanoscale Physics



Dimitris Drikakis
University of Starthclyde, UK

Biography:

Professor Dr. Dimitris Drikakis is Professor of Engineering Science and Executive Director of Global University Partnerships (USA & Far East) at the University of Starthclyde, Glasgow, UK. His expertise is in fluid mechanics, fluid-solid interfaces, turbulence and turbulent mixing, heat transfer, computational fluid dynamics (CFD), and nanotechnology. He has been active in both fundamental and applied research. To date, he has co-authored two books and has published about 400 papers in the above technical areas.

TRACK

Magnetic Materials and Optical Materials | Semiconductor Materials



Andrés Cantarero
University of Valencia, Spain

Biography:

Andrés Cantarero is Full Professor in Condensed Matter Physics at the University of Valencia. After his Ph. D., he spent two years at the Max Planck Institute of Solid State Physics as a postdoc, where he came back several times as visiting professor. His main field of research has been optical spectroscopy studies of semiconductor nanostructures, mainly Raman spectroscopy. He developed several phenomenological models on Raman spectroscopy and lattice dynamics and, more recently, using density functional theory. He has also been working on transport and magnetic properties of solids. His main interests nowadays are thermoelectric materials, an exciting topic within energy harvesting.

TRACK

Experimental Condensed Matter and Materials Physics



Supriyo Bandyopadhyay
Virginia Commonwealth University,
USA

Biography:

Supriyo Bandyopadhyay is Commonwealth Professor of Electrical and Computer Engineering at Virginia Commonwealth University where he directs the Quantum Device Laboratory. Research in the laboratory has been frequently featured in national and international media (newspapers, internet blogs, magazines such as Business Week and EE Times, CBS, NPR, journals such as Nature, and internet news portals). Inventions made in this laboratory have been highlighted in the US Army Nanoscience Poster prepared for the Pentagon and have resulted in multiple patents. The laboratory's educational activities were featured in a pilot study conducted by the ASME at Pennsylvania State University. The laboratory has graduated many outstanding Ph.D.s who have become internationally recognized faculty members and won numerous national and international awards.

Organizing Committee

TRACK

Nanoscale Physics



Matteo Tonezzer
University of Trento, Italy

Biography:

Matteo Tonezzer received his PhD degree "cum laude" from the Faculty of Physics at the University of Trento, Italy. His thesis was regarding the optimization of inorganic and organic nanostructured materials toward gas sensing. In 2011, he won the Young Scientist Award from the European Materials Research Society (EMRS). He worked in research centers in France (ESRF), Brazil (UFMG), Vietnam (HUST), Italy (INFM, CNR) and USA (GeorgiaTech). He is currently working for IMEM at the Italian National Research Council. He is author of more than a dozen papers on international journals and contributed, also with invited talks, to tens of international conferences.

TRACK

Magnetic Materials and Optical Materials | Nanoscale Physics



You Qiang
University of Idaho, Russia

Biography:

Dr. Qiang has studied magnetic nanoparticles and nanocomposites for more than 30 years. His expertise includes: synthesis of nanoclusters and nanoclusterassembled composites; and characterization of magnetic and optical properties as well as transports of the nanomaterials by conductivity, optic and susceptibility. He applies magnetic nanomaterials in energy, environmental and biomedical science and technology.

TRACK

Nuclear Physics



Giorgio Bellettini
University of Pisa
Italy

Biography:

Giorgio Bellettini was born in Bologna (Italy) on May 5, 1934. He Studied at the Scuola Normale Superiore of Pisa from 1953 to 1956. He is a Laurea Cum Laude in Physics at the University of Pisa on December 12, 1957, and member of the Italian Physical Society as of 1960. He was Full professor in General Physics as of 1979. As of year 1980 part-time resident at Fermilab to participate in the Collider Detector Experiment at the Tevatron, and Spokesperson of the Pisa Photoproduction Group at the Frascati Electron-Synchrotron, from 1960 to 1963. He was the assistant Professor of Atomic Physics, 1960-1961 (University of Pisa), and Full Professor of Physics with Particle Colliders, 1997 – 2006, University of Pisa. Finally he was retired in 2009 from University of Pisa.

TRACK

Nanoscale Physics



Patrica Haro
Autonomous University of Madrid,
Spain

Biography:

Patricia Haro González was born in Santa Cruz de Tenerife, Spain. Her research interests have been growing and evolving continuously. During her PhD thesis she devoted a great deal of efforts to the spectroscopy of rare earth materials, studying the nanocrystals formation under laser irradiation techniques. In 2011, she finished her PhD with more than 30 publications in international journals, obtaining the Outstanding Ph.D. Thesis Award by ULL. During her first postdoctoral position in Verona's University, she started to work with nanoparticles and their applications as optical thermal sensors in bio-system. Years later, I moved to UAM and started to work in the Fluorescence Imaging Group in the Physics of Materials Department. Here, she began working and leading a new research line, the optical manipulation of fluorescent nanoparticles.

Conference Directory

August 16-17 | London, UK

Day 1: Opening Ceremony

• Registrations	Final attendance of the participants
• Introduction	Day 1 kicks off by Moderator's introductory speech
• Guest's Speak	Briefing the conference theme by Honorable Guest

Day 1 Sessions

• Keynote Bout	Talks covering the Theme of the Conference
• Coffee Break	Coffee and Candid shots of the Group
• Oral Session 1	Condensed Matter Physics | Materials Physics
• Special Session	A exclusive Exhibitor hosted session/Workshop for effective B2B chance
• Luncheon	Networking over Lunch
• Oral Session 2	Magnetic Materials and Optical Materials | Semiconductor Materials
• Coffee Break	Post-lunch coffee break session for networking
• Oral Session 3	Case studies/General discussions

Day 2 Sessions

• Keynote Bout	Re-opening the day with Keynotes again
• Coffee Break	Coffee and Networking
• Oral Session 4	Solid State Physics | Soft Condensed Matter Physics
• Luncheon	Networking over Lunch
• Oral Session 5	Superconductivity | Nanoscale Physics
• Coffee Break	Post-lunch coffee break session for networking
• Poster Session	Accepted Poster presentations
• YRF Presentation	Selected Students' Oral Presentations
• Closing Session	Award Ceremony & Thank you note by Moderator
• Coffee Break	Coffee and Refreshments

PROVISIONAL PROGRAM

Tentative Speakers

Title: Recent advances and challenges in thermoelectrics

Subhendra D. Mahanti, Michigan State University, USA

Biography: Professor Subhendra. D. Mahanti (S. D. Mahanti) was born in Cuttack, India, on September 24, 1945. He received his B.Sc (Honors in Physics) from Utkal University in 1961, standing 2nd in the University, M.Sc (Physics) from Allahabad University in 1963, standing 1st in the University. He has been visiting professor at several leading institutions in Europe and India. He is a Fellow of the American Physical Society.

Title: Transport processes over fractal surfaces

Dimitris Drikakis, University of Starthclyde, UK

Biography: Professor Dr. Dimitris Drikakis is Professor of Engineering Science and Executive Director of Global University Partnerships (USA & Far East) at the University of Starthclyde, Glasgow, UK. His expertise is in fluid mechanics, fluid-solid interfaces, turbulence and turbulent mixing, heat transfer, computational fluid dynamics (CFD), and nanotechnology. He has been active in both fundamental and applied research. To date, he has co-authored two books and has published about 400 papers in the above technical areas.

Title: New insight In the physics Of RMn2O5 multiferroics

Victor Balédent, Université Paris-Sud, France

Biography: Dr. Victor Balédent, Ph. D. in physics is an Associate professor at the University Paris-Sud, Orsay, France. He obtained his Ph.D. in 2010 for his work on the magnetic properties of superconducting cuprates studied by neutron scattering, awarded by a prize from the French Neutron Society. During a two years post-doct at synchrotron SOLEIL, he extend his research to various superconducting materials (pnitides, heavy fermions, cuprates…) and widens his scientific thematics to Metal-Insulating transitions and multiferroicity.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Study on the infrared optical properties and the microstructure of cesium iodide thin film

Haihan Luo, The Shanghai Institute of Technical Physics of the Chinese Academy of Sciences, China

Biography: Dr. Haihan. Luo received his BS degree in Physics Department from Nanjing University in 2006, and received his PhD degree of physical electronics from University of Chinese Academy of Sciences in 2012. His research interests are focused on micro-nano integrated optical devices, far infrared optical interference filters design and manufacturing and optical properties analysis of thin film materials.

Title: Study of Anomalous Vibrational Dynamics in Tetrahedrite Thermoelectrics by Integrated Computational and Experimental Methods

Wei Lai, Michigan State University, USA

Biography: Dr. Wei Lai is currently an associate professor in the department of Chemical Engineering and Materials Science at Michigan State University (MSU). He received his B.S and M.S of Materials Science at the University of Science and Technology of China in 1998 and 2001. He obtained his Ph. D. in Materials Science at the California Institute of Technology in 2007. Before joining MSU, he was a postdoctoral associate in the Department of Materials Science and Engineering at the Massachusetts Institute of Technology.

Title: Bose-Einstein condensation and superfluidity of magnons in ferromagnetic films

Valery L Pokrovsky, Texas A&M University, USA

Biography: Valery Pokrovsky is a specialist in theoretical physics. He has defended Kandidat Thesis (Russian analogue of PhD) on theory of Arrays in 1957 and Doctor of Science Thesis (higher degree) on Siperconductivity theory in 1962. His main works were in the areas of Quantum Mechanics, Statistical Physics and Condensed Matter theory. He worked in Siberian Branch of Academy of Scinces of USSR, in Landau Instittue for Theoretical Physics and in Texas A&M University. His award include Landau Prize of Academy of Science USSR (1982), Humboldt prize for senior American scientists (200) and Onsager Prize by American Physical Society.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Thin film circuits with amorphous oxide thin film transistor

Sang Yeol Lee, Cheongju University, South Korea

Biography: Sang Yeol Lee has been a full professor of Department of Semiconductor Enigineering, Cheongju University as a full professor and Director of Research Institute of Advanced Semiconductor Convergence Technology. He received the BS degree in Department of Electrical Engineering from Yonsei University in 1986. He received the MS and PhD degrees in the Department of Electrical and Computer Engineering from State University of New York at Buffalo in 1990 and 1992, respectively.

Title: InAs-based nanowire quantum structures for advanced optoelectronics

Qiandong Zhuang, Lancaster University, UK

Biography: Dr Qian-Dong Zhuang is a Senior Lecturer in the Physics Department at Lancaster University, UK. He gained his PhD from the Institute of Semiconductors, CAS, China in 1999. Since then he worked at Nanyang Technological University (Singapore) and Glasgow University (UK) as a Research Scientist. In 2003, he joined Lancaster University as a Lecturer. He has subsequently established MBE Research Laboratory (molecular beam epitaxy) in the Physics Department where he has been leading the research in MBE grown semiconductor nanostructures and device applications.

Title: Supercurrent and transport properties of mesoscopic SNFS Josephson junction under the injection of spin polarized current

Golikova T.E, ISSP RAS, Russian Federation

Biography: Golikova Tatiana is working on experimental investigation of the interplay of superconductivity and magnetism at low temperatures involving structure fabrication with the nanotechnology tools.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Micro-texturing TiN and Ag Coating for Flexible and Transparent Electronics

Loïk Gence, Pontificia Universidad Catolica de Chile, Chile

Biography: Professor Dr. Loïk Gence is a Assistant Professor in Instituto de Física of Pontificia Universidad Catolica de Chile, Chile..

Title: Manufacturing gas turbine engine inlet housing with help of polymer composite materials

Sergei Aliukov, South Ural State University, Russia

Biography: Sergei V. Aliukov has been doing his scientific research in different areas of his activity, namely, in Engineering, Materials Science, Mathematics, and others. He has published 3 monographs and more then 100 papers. He has developed new methods of approximation of generalized and piece-wise functions and some physical and mathematical models of dynamical processes.

Title: Synthesis of a stable HCP-FCC mixture phase of the high-entropy superalloys Al0.15Co0.18Cr0.12Fe0.11Ni0.36Ti0.08 at high pressure

Chih-Ming Lin, National Tsing Hua University, Taiwan

Biography: Chih-Ming Lin has his expertise in evaluation and passion in improving the health and wellbeing. Her open and contextual evaluation model based on responsive constructivists creates new pathways for improving healthcare.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Strain-engineered Phonon and Band Gap Modification in 2D Materials

Yanlong Wang, Dalian Institute of Chemical Physics, China

Biography: Yanlong received his PhD in Condensed Matter Physics in March 2016 under the supervision of Assoc Prof Ting Yu from NTU. His current research field mainly focuses on studies of two-dimensional (2D) materials including transition metal dichalcogenides (TMDs) and black phosphorus by optical probes such as Raman and photoluminescence spectroscopy. He has systematically studied band structure evolutions and lattice vibrational responses in atomically thin TMD and BP under uniaxial tensile strain during his scientific research experience.

Title: Diamond growth in air at room temperature in CVD-grown pseudo-graphite films

I.M. Shmytko, Institute of Solid State Physics RAS, Russia

Biography: Ivan Shmytko. 1970 - Graduation in Physics of Moscow Institute of Physics and Technology; 1976 - Ph.D. from Moscow Institute of Physics and Technology; 1985- Diploma of Senior Scientist, Institute of Solid State Physics of Russian Academy of Sciences; 2005 - Ph.D (Doctor of Sciences) Institute of Solid State Physics; 2005- at present Leading Res. Associate of Institute of Solid State Physics. He has published more than 150 papers in reputed journals. Current research interest: Structure aspects of disordered systems.

Title: Room temperature ferromagnetism in various non-magnetic oxides

Homnath Luitel, Variable Energy Cyclotron Centre

Biography: Mr. Homnath Luitel is a PhD student at Variable Energy Cyclotron Centre (VECC), Kolkata. He has done his post-MSc course from VECC, Kolkata and has registered PhD program under Homi Bhabha National Institute (HBNI), Mumbai. His research area mainly focuses on room temperature ferromagnetism in various non-magnetic semiconducting oxides.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Development of Giant Magnetocaloric materials for magnetic refrigeration

U. Devarajan, , Indian Institute of Science Education and Research

Biography: Devarajan has completed his PhD at the age of 31 years from Bharathidasan University and currently, he is doing postdoctoral research in IISER, Pune, India. He has published more than 10 papers in reputed journals and has been serving as a reviewer for Journal of Magnetism and Magnetic Materials (JMMM).

Title: Interconnection of charge neutrality level with electronic Structure and p-d hybridization and its modification upon electronic excitation

Arkaprava Das, University Accelerator centre

Biography: Arkaprava Das is a senior research scholar in Inter University Accelerator centre.

Title: Study of structural properties and magnetic ordering in the polycrystalline perovskite Sm0.5Ca0.2Sr0.3MnO3

Most Asma Akter Bally, Bangladesh University of Engineering and Technology, Bangladesh

Biography: M. A. A. Bally is an Assistant Professor of BCS (General Education) Cadre of the Government of Pupils' republic of Bangladesh. Now she is doing her Ph.D. study at Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. Recently she has done some research work at Uppsala University, Uppsala, Sweden.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Quantum Devices-Observations of proposed δ-doped Resonant Tunneling Diode

Man Mohan Singh, Aligarh Muslim University

Biography: Mohan Singh received the B.Tech. degree in Electronics and Communication Engineering from Uttar Pradesh Technical University, Lucknow, India, in 2010, the M.Tech (Electronic Circuits and system Design) degree in the Department of Electronics Engineering, Aligarh Muslim University, Aligarh, India in 2013. Currently, He is a research scholar at Aligarh Muslim University in the field of Modelling and simulation of Semiconductor Devices.

Title: Effect of Rashba spin-orbit coupling on the conductance in a two-dimensional electron gas/p-wave superconductor junction

Ghamar Hassanloo, University of Zanjan

Biography: Dr. Ghamar Hassanloo is a teacher in university of zanjan.

Title: Acoustic waves propagation in branched polymers

Doniyor Babajanov, Turin Polytechnic University

Biography: Doniyor Babajanov is research assistant in Turin Polytechnic University in Tashkent. His main field of study is theoretical physics. Doniyor's research interests are: (i) Nonlinear evolution equations on branched systems and networks, (ii) Condensed matter physics: particle transport in low-dimensional nanoscale systems, (iii) Cold atom physics: Nonlinear dynamics of BEC and vortices.

PROVISIONAL PROGRAM

Tentative Speakers

Title: Photo-detachment Of H- near a Non-absorbing Metal Surface

Maryam Nawaz Awan, University of the Punjab

Biography: Maryam Nawaz is doing her PhD from University of the Punjab, Lahore, Pakistan. She is doing her research in the field of photodetachment of anions. Her expertise are Closed Orbit theory and Theoretical Imaging Method.

Title: Calculation of the electronic absorption spectra of dyes using Time-Dependent Density-Functional Theory (TD-DFT)

Sefia Brahim, University of Saida, Algeria

Biography: Sefia BRAHIM, PhD student, University of Saida, Algeria.

Title: Magneto-electronic, Mechanical and thermodynamic properties of full-Heusler alloys Cr2GdGe1-xSnx

Habib Rached, Hassiba Benbouali University of Chlef, Algeria

Biography: I am an Associate Professor at the Department of physics at the Hassiba Ben Bouali University of Chlef-Algeria and I working as researcher at the Magnetic materials Laboratory at the Djillali Liabes University of Sidi Bel Abbes-Algeria, where I research in the areas of computational materials science. I received my Ph.D. degree in physics from Djillali Liabes University of Sidi Bel Abbes-Algeria in May 2012.

Available Slots



To Avail the slots contact:

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To submit abstracts:

https://materialsphysics.physicsmeeting.com/abstract-submission.php

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A very few students can hold on to the opportunity of giving an Oral Presentation along with those highly affiliated expert minds. Exceptional abstracts can grab this chance and exhibit their research verbally.

INDUSTRY REPRESENTATIVE

Communicate the ideas on behalf of your organization in the form of a scientific talk or be a delegate to proxy your company's attendance at the Meet.

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Showcase the latest product or service of your industry. Book your booth and avail free passes to the conference sessions.

B2B and B2A SESSIONS

At the Materials Physics 2018 London, industries are welcome to display their products in the industrial exhibition, organise a symposium/workshop or benefit from many other sponsoring opportunities.

Experience the demonstration of finest ideas from best speakers of this field, meet with industry partners and customers, and examine recent market trends and opportunities- all over the luncheon and coffee break sessions.

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Being in London

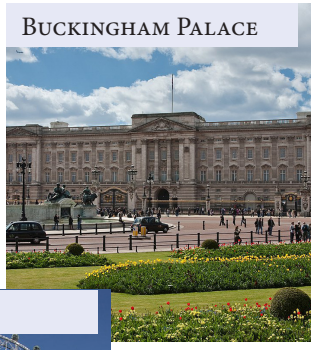
London is one among the most populous capital city in the world. It is the capital of England and United Kingdom. Standing on the River Thames in the south east of the island of Great Britain, London has been a major settlement for two millennia. London is a foremost city in the arts, professional services, research, commerce, healthcare, education, media, entertainment, finance and development, fashion, tourism, and transportation. It is crowned as the world's largest financial centre and has the fifth- or sixth-largest metropolitan area GDP in the world. London is one of the pre-eminent financial centers of the world as the most important location for international finance.

London is ranked as the most visited city in the world with over 65 million visits in 2015. Tourism is the major industries of London, engaging nearly 350,000 full-time workers and the city accounts for 54% of all inbound visitor spending in the UK.

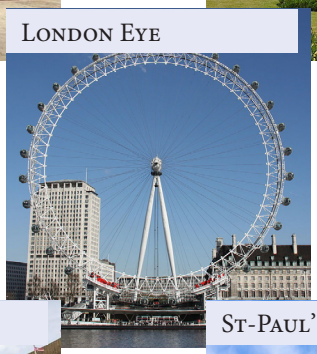
London 2018


Big ben


British Museum


Buckingham Palace

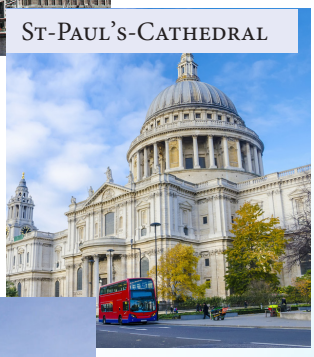

Lodon bridge


London Eye

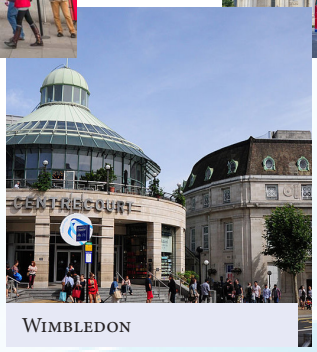

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