



SCIENTIFIC PROGRAM

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MEETINGS
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2nd International Conference on

MAGNETISM AND MAGNETIC MATERIALS

September 24-26, 2018 | Budapest, Hungary

Allied Academies

47 Churchfield Road, London, W3 6AY, United Kingdom

September 24, 2018 | Day 1

Conference Hall : Mezzanine Room

09:00-09:30

REGISTRATIONS

09:30-09:50

OPENING CEREMONY

KEYNOTE FORUM

09:50-10:00

Introduction

10:00-10:50

Title: Magnetic system of multiple interactions 3+3 and 5+5 = 16 interactions in total vs the known two from 0 distance to infinity and much more than that...

Georgios K. Kertsopoulos, Independent Private Inventor, Greece

Group photo | Networking & Refreshment Break 10:50-11:10 @ Foyer

11:10-12:00

Title: Enhancing magnetism power; use of nano technology and renewable power resources as future aspects

Shailender Gaur, P.W.D. B&R, Br. Hisar, Government of Haryana, India

Major Sessions:
Magnetism and Magnetic Materials | Magneto-Optics | Nanomaterials and Nanotechnology
Hard and Soft Magnetic Materials

Session Chair: Sandeep Kumar Srivastava, Central Institute of Technology, India
Session Co-chair: Rafael A Prato M, VITO-Flemish Institute for Technological Research, Belgium

Session Introduction

12:00-12:30

Title: Manufacturing and applications of magneto-optical garnet films

Benjamin Wenzel, INNOVENT e.V Technology Development, Germany

12:30-13:00

Title: Structural and magnetic properties in iron oxide epitaxial thin films

Masato Watanabe, Research Institute for Electromagnetic Materials, Japan

Lunch Break 13:00-14:00 @ Budavár Restaurant

14:00-14:30

Title: Nanomagnetite magnetization on demand via a novel electrosynthesis route

Rafael A Prato M, VITO-Flemish Institute for Technological Research, Belgium

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| 14:30-15:00 | Title: Spin filter effect at magnetic/non-magnetic interfaces in ZnO Pablo D Esquinazi, University of Leipzig, Germany |
| 15:00-15:30 | Title: Room temperature single phase multiferroic Aurivillius compound Chenglong Jia, Lanzhou University, China |
| Networking and Refreshment Break 15:30-15:50 @ Foyer | |
| 15:50-16:20 | Title: On the magnetic properties of Fe-doped hydroxyapatite nanoparticles Alessio Adamiano, Institute of Science and Technology for Ceramics (ISTEC-CNR), Italy |
| 16:20-16:50 | Title: Improving the stability and magnetic hardening of Fe₁₆N₂ by alloying: A first-principles study Satadeep Bhattacharjee, Indo-Korea Science and Technology Center, India |
| Panel Discussion 16:50-17:00 | |
| September 25, 2018 Day 2 | |
| Conference Hall : Mezzanine Room | |
| 09:00-09:30 | Registrations |
| KEYNOTE FORUM | |
| 09:30-10:20 | Title: Multiferroic and magnetoelectric nanocomposites for data processing Wolfgang Kleemann, University Duisburg-Essen, Germany |
| 10:20-11:10 | Title: Bit patterned media-probing magnetic property using EHE measurement Sandeep Kumar Srivastava, Central Institute of Technology, India |
| Group Photo Networking and Refreshment Break 11:10-11:30 @ Foyer | |
| Major Sessions: Electromagnetism Functional Magnetic Materials | |
| Session Chair: Jonas Fransson, Uppsala University, Sweden Session Co-chair: Shailender Gaur, P.W.D. B&R, Br. Hisar, Government of Haryana, India | |
| Session Introduction | |
| 11:30-12:00 | Title: Spin conversion phenomena in spintronics YoshiChika Otani, ISSP University of Tokyo, Japan |
| 12:00-12:30 | Title: Magnetic non-equilibrium control of heat and charge transport in paramagnetic molecular dimer Jonas Fransson, Uppsala University, Sweden |
| 12:30-13:00 | Title: Electrochemically synthesis and magnetic properties of spin transition compounds Guillermo Pozo, VITO-Flemish Institute for Technological Research, Belgium |
| Lunch Break 13:00-14:00 @ Budavár Restaurant | |
| 14:00-14:30 | Title: NMR-in-magnetics as useful tool for investigation of local structure of magnetic nanomaterials Vladimir V Matveev, Saint Petersburg State University, Russia |

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| 14:30-15:00 | <p>Title: Peculiarities of magnetic ordering in novel chiral 2D magnet MnSnTeO6</p> <p>Elena Zvereva, Moscow State University, Russia</p> |
| 15:00-15:30 | <p>Title: Characterization of coal combustion material for its application in geo-environmental engineering</p> <p>Abhijit Deka, Central Institute of Technology, India</p> |
| Networking and Refreshment Break 15:30-15:50 @ Foyer | |
| 15:50-16:20 | <p>Title: Magnetism in novel family of triangular layered antimonates MSb₂O₆ (M=Mn,Co,Ni,Cu)</p> <p>Grigory Raganyan, Moscow State University, Russia</p> |
| 16:20-16:50 | <p>Title: Investigation of magnetic molecules containing 3d and 4f metals</p> <p>Ján Titiš, University of Ss. Cyril and Methodius, Slovakia</p> |
| Panel Discussion 16:50-17:00 | |
| <h2>September 26, 2018 Day 3</h2> <h3>Conference Hall : Mezzanine Room</h3> | |
| 09:30-10:00 | Registrations |
| <h2>KEYNOTE FORUM</h2> | |
| 10:00-10:50 | <p>Title: The role of the rare-earth on the magneto-electric coupling: The RMn₂O₅ family</p> <p>Marie-Bernadette Lepetit, Institut Laue Langevin, France</p> |
| Networking and Refreshment Break 10:50-11:10 @ Foyer | |
| <p>Major Sessions: Magnetization Dynamics Materials Science and Engineering</p> | |
| <p>Session Chair: Georgios K. Kertsopoulos, Independent Private Inventor, Greece</p> | |
| 11:10-11:40 | <p>Title: Field supported slow magnetic relaxation in hexacoordinate Co(II) complexes with easy plane anisotropy</p> <p>Cyril Rajnák, University of Ss. Cyril and Methodius, Slovakia</p> |
| 11:40-12:10 | <p>Title: Domain dynamics in multiferroics</p> <p>Masakazu Matsubara, Tohoku University, Japan</p> |
| 12:10-12:40 | <p>Title: High temperature all organic ferromagnetic materials</p> <p>Young-Wan Kwon, Korea University, Korea</p> |
| 12:40-13:10 | <p>Title: The triangular type mixed spin-1/2 and spin-1 ising nanowire with core-shell structures</p> <p>Ali Oubelkacem, Moulay Ismail University, Morocco</p> |
| Panel Discussion 13:10-13:20 | |
| Lunch Break 13:20-14:20 @ Budavár Restaurant | |
| Award and Closing Ceremony 14:20 :15:00 | |
| Networking and Refreshment Break 15:00-15:20 @ Foyer | |