



Scientific Program

3rd International Conference on

Magnetism and Magnetic Materials

October 22-23, 2018 | Rome, Italy

UK: Conference Series LLC Ltd
47 Churchfield Road, London, W3 6AY
Toll Free: +0-800-014-8923



DAY-1

October 22, 2018

Meeting Hall: **Olimpica 3+4**

08:00-09:00 Registrations

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

KEYNOTE FORUM

09:25-09:30 Introduction

09:30-10:15 **Title: Unusual properties of multilayer nanoisland magnetic systems: Supervortices, flat spin springs and optical nonreciprocity**

Fedor Pudonin, P.N. Lebedev Physical Institute of RAS, Russia

10:15-11:00 **Title: Sustainability of nanomaterials in architecture**

Consiglia Mocerino, Sapienza University of Rome–MIUR, Italy

Networking & Refreshments 11:00-11:20 @ Foyer

GROUP PHOTO 11:20–11:30

11:30-12:15 **Title: Peculiarities of the energy spectrum and the magnetic properties of strongly correlated electron systems on bipartite lattices formed by weakly interacting linear segments**

Vladyslav O Cheranovskii, V.N. Karazin Kharkiv National University, Ukraine

12:15-13:00 **Exhibitor Talk: Simulated thermomagnetic properties of DyAl₂, HoAl₂ and ErAl₂ compounds calculated by atomic matters MFA computation system**

Rafał Michalski, Atomic Systems Ltd., Poland

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

Sessions: Magnetism | Electromagnetism | Spintronics | Materials Science

Chair: Fedor Pudonin, P.N. Lebedev Physical Institute of RAS, Russia

Co-Chair: Karine Chesnel, Brigham Young University, USA

INTRODUCTION

14:00-14:25 **Title: Critical behavior of GaMnAs diluted magnetic semiconductors near the Curie temperature**
Shavkat U Yuldashev, Dongguk University, South Korea

14:25-14:50 **Title: Potential of the NMR-in-magnetics technique in the study of local structure of various magnetic materials**

Vladimir V Matveev, Saint Petersburg State University, Russia

14:50-15:15 **Title: A step towards magnetic separation of rare earth ions**
Liubov Lukina, KU Leuven, Belgium

15:15-15:40 **Title: Enhancement of germination in maize (Zea mays variety: Ganga safed) by magnetic field signal transduction**
K N Guruprasad, Shri Vaishnav Institute of Science, India

Networking & Refreshments 15:40-16:00 @ Foyer

16:00-16:25 **Title: Low temperature properties of low-dimensional exactly solvable spin models with impurities**
Elena V Ezerskaya, VN Karazin Kharkiv National University, Ukraine

16:25-16:50 **Title: Condensed matter physics in 100 – 1000 T ultrahigh magnetic fields**
Yasuhiro H Matsuda, University of Tokyo, Japan

16:50-17:15 **Title: Toward addressing the stability challenge of solution processed organic solar cells**
Zhe Li, Cardiff University, UK

17:15-17:40 **Title: Enhanced magnetization in the BiFeO₃-RMnO₃ thin films**
Lahmar Abdelilah, University of Picardie Jules Verne, France

DAY-2

October 23, 2018

Meeting Hall: **Olimpica 3+4**

KEYNOTE FORUM

09:30-10:15 **Title: Shaping nanoscale magnetic domain memory in exchange-coupled [Co/Pd]IrMn thin films by field cooling**
Karine Chesnel, Brigham Young University, USA

10:15-11:00 **Title: Departure from BCS response in photoexcited superconducting films observed by terahertz spectroscopy**
Christelle Kadlec, Institute of Physics, Czech Academy of Sciences, Czech Republic

Networking & Refreshments 11:00-11:20 @ Foyer

11:20-12:05 **Title: Magnonic supercurrents**
Dmytro A Bozhko, Universität Kaiserslautern, Germany

Sessions: Magneto-electronic Materials | Magnetization Dynamics | Hard Magnetic Materials | Soft Magnetic Materials | Structured Materials | Special Magnetic Materials | Superconductivity and Superfluidity | Geomagnetism | Novel Magnetic Materials and Device Applications

Chair: Consiglia Mocerino, Sapienza University of Rome-MIUR, Italy

Co-Chair: Dmytro A Bozhko, Universität Kaiserslautern, Germany

INTRODUCTION

12:05-12:30 **Title: Nanoisland magnetic films: Technology and possible applications**
Fedor Pudonin, P.N. Lebedev Physical Institute of RAS, Russia

12:30-12:55 **Title: Efficiency of nanotechnologies in the high performance of buildings**
Consiglia Mocerino, Sapienza University of Rome—MIUR, Italy

12:55-13:20 **Title: Macroscopic dynamics of ferrofluids**
Victor V Sokolov, MIREA— Russian Technological University, Russia

Lunch Break 13:20-14:20 @ Hotel Restaurant

14:20-14:45 **Title: The electron correlation effect on the magnetic properties of quasi-one dimensional-
materials on the base of graphitic nanoclusters with embedded transition metals**
Vladyslav O Cheranovskii, V.N. Karazin Kharkiv National University, Ukraine

14:45-15:10 **Title: Photo-induced magneto-optical phenomena in magnetic semiconductors: europium
chalcogenides**
Victor Pavlov, Ioffe Institute of Russian Academy of Sciences, Russia

15:10-15:35 **Title: Process, characterization and physical properties of 3d transition ion doped-tetrahedrite
compounds**
Adil Guler, Marmara University, Turkey

POSTER PRESENTATIONS | NETWORKING & REFRESHMENTS 15:35–16:10 @ FOYER

PANEL DISCUSSION

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Awards & Closing Ceremony