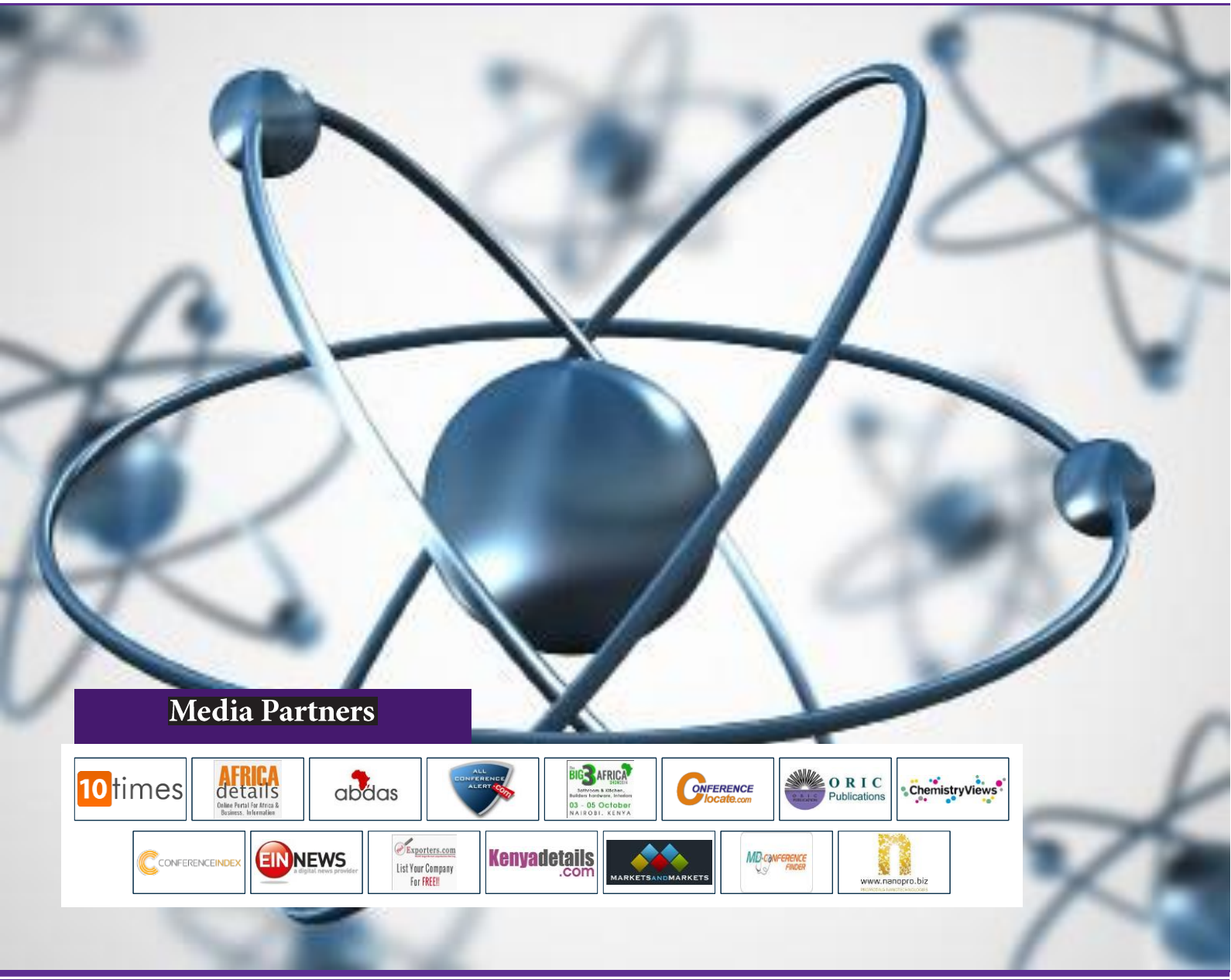
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International Conference and Exhibition on

Mesoscopic & Condensed Matter Physics

June 22-24, 2015 Boston, USA



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Day 1 June 22, 2015

08:30-9:30 Registrations

University A

conferenceseries.com **09:30-9:55** Opening Ceremony

Keynote Forum

09:55-10:00 Introduction

10:00-10:30 **Peter L. Hagelstein**
Massachusetts Institute of Technology, USA

10:50-11:20 **Arun Bansil**
Northeastern University, USA

11:20-11:50 **Mehdi Anwar**
University of Connecticut, USA

Coffee Break 10:30-10:50@Foyer

Track 9: Applications and New Dimensions in Technology

Session Chair: Peter L. Hagelstein, Massachusetts Institute of Technology, USA
Session Co-Chair: Mehdi Anwar, University of Connecticut, USA

Session Introduction

11:50-12:10 GaN HEMTs for next generation electronics
Puneet Srivastava, Massachusetts Institute of Technology, USA

12:10-12:30 Clean unit system platform in "atom-bit-energy/ environment" space for high-efficiency solar cells and kinetosomnogram (KSG) applications
Akira Ishibashi, Hokkaido University, Japan

12:30-12:50 Large spin-dependent thermoelectric effects using CoFe-based alloy
Takashi Kimura, Kyushu University, Japan

12:50-13:10 Three-component gyrotropic metamaterial
Igor Tralle, University of Rzeszow, Poland

13:10-13:30 Study of molecular dynamics in two liquid crystal dimers using laser Raman spectroscopy
P R Alapati, North Eastern Regional Institute of Science and Technology, India

Lunch Break 13:30-14:30@Foyer

14:30-14:50 Topological defects in graphene nanostructures
Jan Smotlacha, Joint Institute for Nuclear Research, Russia

14:50-15:10 Impact of ambient H2S atmosphere on the growth and properties of vacuum evaporated sulfide semiconductors thin films for device applications
Beer Pal Singh, CCS University, India

Track 3: Phase Phenomena and Electronic Phenomena

Session Chair: Daniel Prober, Yale University, USA
Session Co-Chair: Igor Tralle, University of Rzeszow, Poland

15:10-15:30 Ultrasensitive far-infrared / THz detection with graphene photodetectors
Daniel Prober, Yale University, USA

15:30-15:50 Spin-singlet resonance state in proton-embedded metals: Discovery of novel high-T_K system leading to high-Tc superconductivity
Yasutami Takada, University of Tokyo, Japan

15:50-16:10 **Peculiar physical properties and material synthesis by self-organization**
Tsuyoshi Takami, Osaka University, Japan

Coffee Break 16:10-16:30@Foyer

Young Researcher Forum

16:30-16:50 **STM Prediction for Klein tunneling in graphene p-n junctions**
Dian Shi, University of California, USA

Workshop

16:50:-17:50 **Smart Materials**
Ajay Kumar Mishra, University of South Africa, South Africa

Day 2 June 23, 2015

University A

Keynote Forum

09:00-09:30 **Carol Heckman**
Bowling Green State University, USA

09:30-10:00 **Timothy R Field**
Mcmaster University, Canada

Track 3: Phase Phenomena and Electronic Phenomena
Track 4: Magnetic Phases
Track 5: Quasiparticles and Soft Matter &
Track 6: Quantum Optics

Session Chair: Daniel Prober, Yale University, USA
Session Co-Chair: Igor Tralle, University of Rzeszow, Poland

Session Introduction

10:00-10:20 **Nematic-driven anisotropic electronic properties of underdoped detwinned Ba(Fe1-xCox) 2As2 revealed by optical spectroscopy**
L. Degiorgi, ETH - Zürich, Switzerland

Coffee Break 10:20-10:40@Foyer

10:40-11:00 **Undulator-like radiation and cooperative phenomena in semiconductor microstructures with grating**
Igor Tralle, University of Rzeszow, Poland

11:00-11:20 **First-principles study of large spin-orbit coupling transition-metal compounds: electronic structure and new possibilities**
Myung Joon Han, Korean Advanced Instituite of Science and Technology, South Korea

11:20-11:40 **Biologically motivated computational toolbox for energy optimization of nanoelectronic systems**
A F Isakovic, Khalifa University, UAE

11:40-12:00 **Unraveling the Physics of Strongly Correlated Electron Systems through Nuclear Magnetic Resonance**
Nicholas Curro, University of California, USA

12:00-12:20 **Pure spin current in a broad range of materials generated by YIG-based spin pumping**
Fengyuan Yang, The Ohio State University, USA

12:20-12:40 **The fate of quasiparticles at a Kondo destroying antiferromagnetic instability**
Frank Steglich, Max Planck Institute for Chemical Physics of Solids, Germany

Lunch Break 12:40-13:40@Foyer

13:40-14:00 **Shaping the quantum wavepacket of free electrons**
Ido Kaminer, Massachusetts Institute of Technology, USA

14:00-14:20 **Nanoscale junctions utilizing magnetic thin-film edges**
Hideo Kaiju, Hokkaido University, Japan

14:20-14:40 **Neutron scattering investigations on multiferroic materials: Advances in polarized neutron utilization**
Kazuhisa Kakurai, Quantum Beam Science Center, Japan Atomic Energy Agency, Japan

14:40-15:00	**1H and 31P NMR spectroscopy of dynamic structures in nano- and mesostructured hydroxyapatites** **Vytautas Balevicius,** Vilnius University, Lithuania
	Young Researcher Forum
15:00-15:20	**Theory of metal/metal multi-contact interfaces: Implications of the coupling between the electrical and thermal transfer processes** **N Foy,** Universite de Picardie J. Verne, France
15:20-15:40	**Turning electric and magnetic properties of hydrogen-terminated arm chair boron nitride nanoribbons by adsorption of Cr and Mn atom** **Yusuf Zuntu Abdullahi,** Universiti Sains Malaysia, Malaysia
	Coffee Break 15:40-16:00@Foyer
	Workshop (Session A)
16:00-17:30	**Work Shop: Electronic Structure of Carbon Nano materials** **Jan Smotlacha,** Joint Institute for Nuclear Research, Russia

Day 3 June 24, 2015

University A

	Workshop (Session B)
09:00-10:30	**Work Shop: Electronic Structure of Carbon Nano materials** **Jan Smotlacha,** Joint Institute for Nuclear Research, Russia
	Coffee Break 10:30-10:50@Foyer

Track 1: The States of Matter
Track 2: Phase Phenomena and Electronic Phenomena
Track 7: Organic Electronics
Track 8: Properties of Cellular Networks and Mesoscale Systems in Biology

Session Chair: Xiaoming Wen, University of New South Wales, Australia
Session Co-Chair: Fengyuan Yang, The Ohio State University, USA

	Session Introduction
10:50-11:10	**Functional magnetic nanoparticles following Néel relaxation system for hyperthermia treatment** **Yuko Ichiyanagi,** Yokohama National University, Japan
11:10-11:30	**Recent advances in nanocomposites** **Ajay Kumar Mishra,** University of South Africa, South Africa
11:30-11:50	**Three-dimensional topological insulators - a new phase of quantum matter; growth issues and the properties of bismuth chalcogenides** **Agnieszka Wolos,** University of Warsaw, Poland
11:50-12:10	**Photo-physics of organic semiconductors and a fundamental challenge for economic viability of organic solar cell technology** **Lokendra Kumar,** Purdue University, USA
12:10-12:30	**Density dependent carrier dynamics in organic-inorganic metal halide perovskite** **Xiaoming Wen,** University of New South Wales, Australia
12:30-12:50	**Quantum Spin Liquid, Topological Order and Entanglement Entropy** **Hong-Chen Jiang,** SLAC National Accelerator Laboratory and Stanford University, USA
12:50-13:10	**Synthesizing hydrocarbons from carbon dioxide and water with metal nanostructures and solar energy** **Mengyan Shen,** University of Massachusetts Lowell, USA
	Lunch Break 13:10-14:10@Foyer

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