

Theme:

Outlining the forefront research in the field of materials science and nanotechnology.

SCIENTIFink

2nd Global Conference on

Materials Science & Engineering

MAY 30-31, 2024 DUBAI, UAE

JUNE 01, 2024 (Virtual)



Materials World 2024

<https://materialsscience.scientifink.com/>



SCIENTIFIC AGENDA

DAY-1

MAY 30, 2024

In-person Conference

Day 1

09:00 - 09:30 Onsite Registration & Seating Arrangement

09:30 - 10:00 Introduction & Opening Ceremony

Keynote Presentations - 10:00 - 11:00 (1hr)

Session-1: Materials Science and Engineering, Ceramics, Polymers and Composite Materials, Biological & Chemical Sciences

Time	Name & Affiliation	Title
10:00 - 10:30	Prof. Zhongwei Guan <i>Technology Innovation Institute, UAE</i>	Design and manufacture of thermoplastic composite prepregs with water-based resin impregnation technology
10:30 - 11:00	Dr. Urvashi Gunputh <i>University of Derby, United Kingdom</i>	Laser-based material Science behind sustainable Powder Based Additive Manufacturing for Healthcare Industry

Refreshment & Coffee - 11:00 - 11:20 (20m)

Oral Presentations - 11:20 - 13:00 (1h 40m)

Session-2: Advanced Materials and Devices, Materials Science and Engineering, Materials for Energy and Environmental Sustainability

Group Presentation

11:20 - 12:10	Prof. Dr. Nana Gorgaslidze Prof. Luiza Gabunia Prof. Levan Ratiani Prof. Gvantsa Janigashvili <i>Tbilisi State Medical University, Georgia</i>	Modern pharmacy, pharmacology, risks and challenges
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Oral Presentations Cont...

12:10 - 12:35	Prof. Klaus-Ulrich Neumann <i>SRH University of Applied Sciences, Germany</i>	Martensitic domain formation in the ferromagnetic shape memory material Ni_2MnGa
12:35 - 13:00	Dr. Fouzia Achchaq <i>University of Bordeaux, France</i>	Recent advancements and locks on the development and use of heat storage materials for high temperature applications

Memorable Group Photo & Tempting Buffet lunch - 13:00 - 13:45 (45m)

Oral Presentations Cont... - 13:45 - 15:00 (1h 15m)

Session-3: Advanced Materials and Devices, Materials for Energy and Environmental Sustainability, Biomedical Engineering

13:45 - 14:10	Dr. Raul B. Rebak <i>GE Vernova Research, USA</i>	Using advanced fuel materials to retrofit current light water reactors
14:10 - 14:35	Dr. Roman Perez <i>International University of Catalonia, Spain</i>	Fabrication of functional blood vessels in vitro for tissue replacement and drug screening
14:35 - 15:00	Dr. Djamila Benrezkallah, Djillali Liabes <i>University, Algeria</i>	Molecular dynamics simulations of unfolding of a thermostable protein: aeropyrum pernix L7Ae

Refreshment & Coffee - 15:00 - 15:20 (20min)

Poster Presentations - 15:20 - 15:50 (30m)

15:20 - 15:50	Philippe Legros <i>University of Bordeaux, France</i>	Dynamic SEM study and analysis of the paraffin RT60 phase change transitions.
	Giorgio Rispoli <i>University of Ferrara, Italy</i>	Simultaneous sensing of cellular chemical release in liquid and gaseous phases with electrophysiological control of this release

Poster Evaluation - 15:50 - 16:05 (15m)

Best Poster Awards - 16:05 - 16:20 (15m)

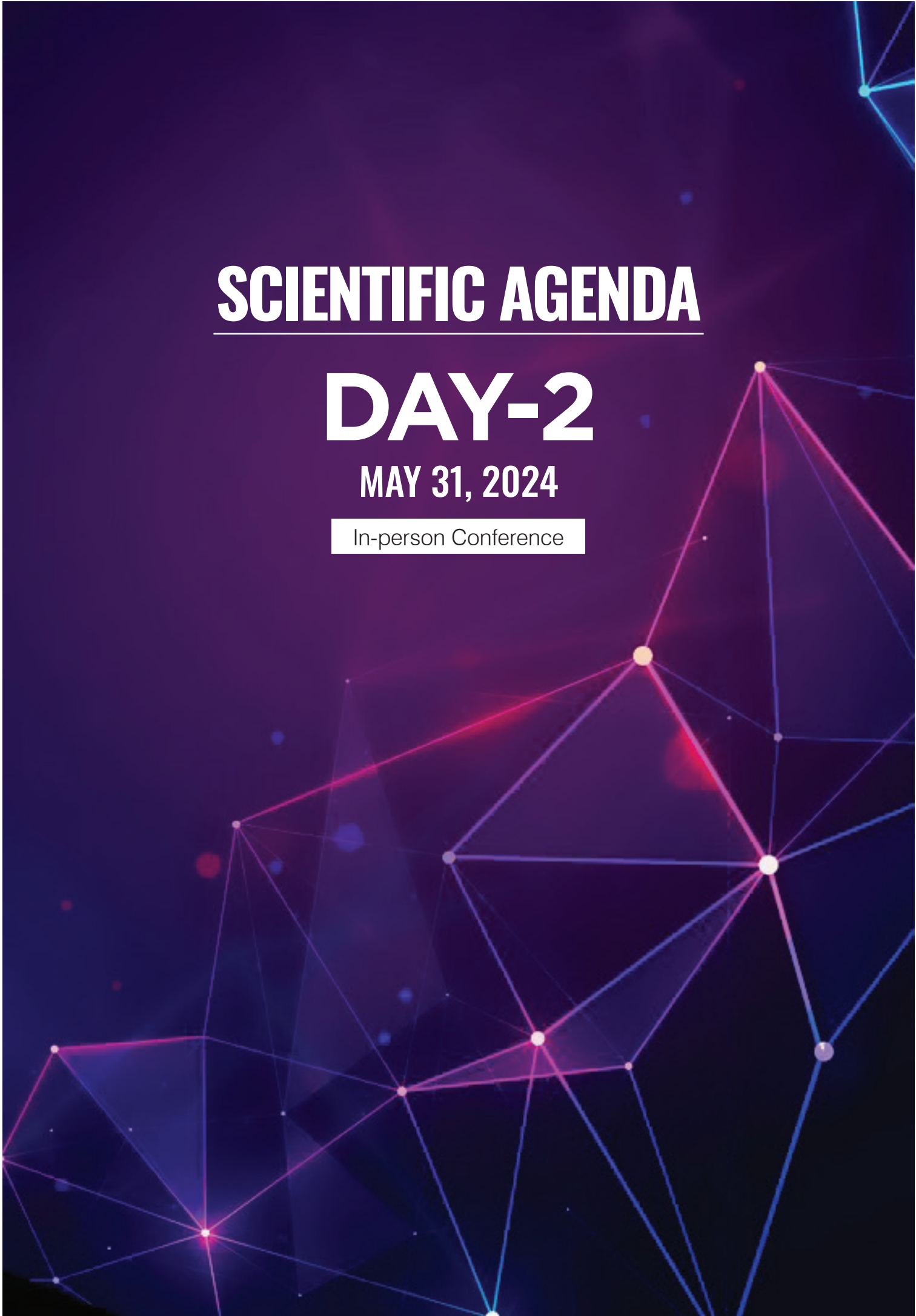
***** End of Day 1 Conference *****

SCIENTIFIC AGENDA

DAY-2

MAY 31, 2024

In-person Conference



Day 2

09:30 - 10:00 Onsite Registration and Seating Arrangement

Keynote Presentations - 10:00 - 11:30 (1hr 30m)

Session-1: Nanomedicine, Nanophysics, Biological & Chemical Sciences

Time	Name & Affiliation	Title
10:00 - 10:30	Prof. Leelakrishna Reddy <i>University of Johannesburg, South Africa</i>	Exploring the Magnetic and Optical Properties of Dilute Magnetic Semiconductors: Doping and Synthesis Perspectives in Zinc Oxide Materials
10:30 - 11:00	Dr. Hansang Cho <i>Sungkyunkwan University, Republic of Korea</i>	Astrocytic scar restricting glioblastoma spreading in glioblastoma-microglia assembloid
11:00 - 11:30	Prof. Vladimir A. Levchenko <i>International Joint Institute of Advanced Coatings Technology, China</i>	Effect of Artificial Intelligence on Obtaining Coatings and Materials with Specified Properties.

Refreshment & Coffee - 11:30 - 11:50 (20m)

Oral Presentations - 11:50 - 13:30 (1h 40m)

Session-2: Advances in Instrumentation Technology, Biomedical Engineering, Aerogels

11:50 - 12:15	Dr. Mohammad Arjmand <i>University of British Columbia, Canada</i>	Multifunctional liquid-templating aerogels
12:15 - 12:40	Dr. Rodolfo Gabriel Figueroa Saavea <i>Universidad de La Frontera, Chile</i>	A new tool for cancer theragnosis
12:40 - 13:05	Dr. Yan Song <i>Chinese Academy of Sciences, China</i>	Preparation and application of pitch-based functional carbon materials
13:05 - 13:30	Dr. Siarhei Zhdanok <i>ART MONBAT, Bulgaria</i>	Carbon nanotubes implementation in lead acid batteries industrial production

Memorable Group Photo & Tempting Buffet lunch - 13:30 - 14:15 (45m)

Oral Presentations Cont... - 14:15 - 15:55 (Duration: 1h 40m)

**Session-3: Nanomedicine and Healthcare, Materials Science and Engineering,
Graphene Technology – 3D & 2D Materials and Carbon Nanotubes**

14:15 -14:40	Prof. Riccarda Antiochia <i>Sapienza University of Rome, Italy</i>	MOF-based biosensors with enhanced electroconductivity: application for vascular endothelial growth factor (VEGF) detection
14:40 - 15:05	Dr. Giulia Zonta <i>University of Ferrara, Italy</i>	Nanostructured gas sensors in a device for colorectal cancer screening
15:05 - 15:30	Dr. Michele Astolfi <i>University of Ferrara, Italy</i>	ST-based MOX sensors optimized to reduce the humidity interference and to detect and monitor tumoral markers in blood samples.
15:30 -15:55	Prof. Omolola Esther Fayemi <i>West University, South Africa</i>	Electrochemical detection of dopamine using green and chemical synthesized CuO/PANI nanocomposite-modified electrode

Refreshment & Coffee - 15:55 -16:15 (20m)

Memorable Group Photo

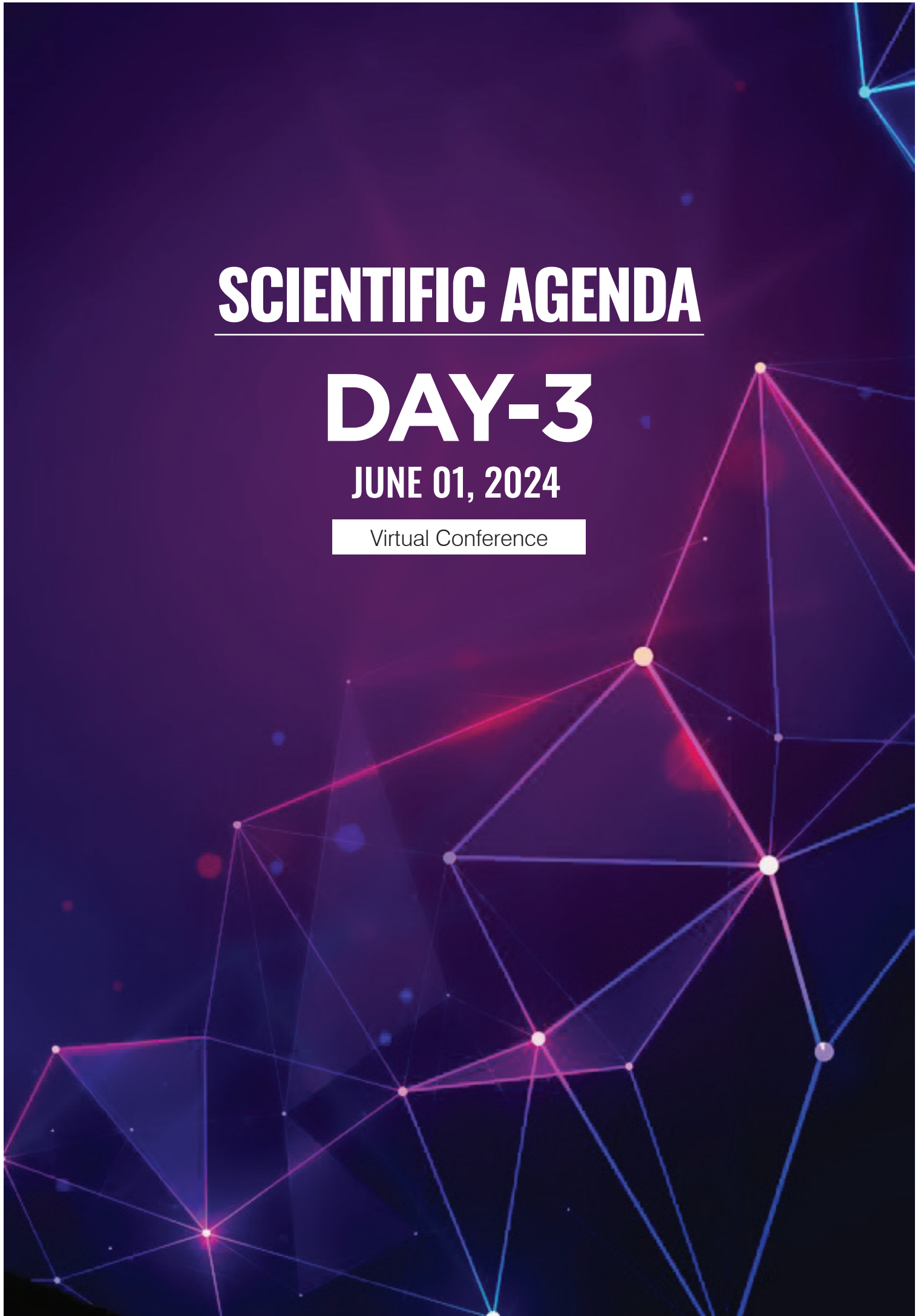
***** End of Day 2 Conference *****

SCIENTIFIC AGENDA

DAY-3

JUNE 01, 2024

Virtual Conference



Day 3 GMT (Greenwich Mean Time)

GMT Timing	Name & Affiliation	Title
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06:50 - 7:00 Introduction and In-person Glimpse

Keynote Presentations

07:00 - 7:30 **Prof. Raman Singh**
Monash University, Australia Innovative surface modification for enabling CVD graphene coating on steels for remarkable corrosion resistance.

7:30 - 08:00 **Prof. Jun ZOU**
The Chinese University of Hong Kong, Hong Kong Direct sampling methods for nonlinear ill-posed inverse problems.

Oral Presentations

08:00 - 08:25 **Dr. Mami Iwasaki**
University of Toyama, Japan CaCO₃ from oyster shell for potential application in bone tissue engineering

08:25 - 08:50 **Dr. Wenbo Peng**
Xi'an Jiaotong University, China Piezo-phototronic effect in multi-layer structured optoelectronic: bilateral piezoelectric charge modulation.

08:50 - 09:10 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Oral Presentations Continues...

09:10 - 09:35 **Dr. Zhu Xiangyan**
Shanghai Jiao Tong University, China Investigating zirconium flows and stocks in China: A dynamic material flow analysis

09:35-10:00 **Dr. Priya V**
Visvesvaraya Institute of Technology, India An alternate productive solution to the disposal of carbon dust obtained from industries

10:00 - 10:25 **Dr. Nina Ivanova**
Institute of Dermatology and Venereology of Academy of National Medical Science of Ukraine, Ukraine The treatment of Alzheimer's disease by the lipochrom

10:25 - 10:50 **Stoyan Sarg Sargoytchev**
World Institute for Scientific Exploration, USA Atlas of atomic nuclear structures - a major contribution of the BSM - supergravitation unified theory

10:50 - 11:10 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

11:10 - 11:35	Dr. Vladimir G Plekhano <i>Fonoriton Science Lab. Estonia</i>	Isotope-based new materials
11:35 - 12:00	Dr. Hamid Mehrabi <i>University of Sunderland, UK</i>	Comparative analysis of additively manufactured primary, recycled and toughened Polylactic acid (PLA)
12:00 - 12:25	Prof. Brij Bhushan Tewari <i>University of Guyana, Guyana</i>	Metal complexes in biology and medicine: the system cadmium(II) / Iron(II) / Zinc(II) – α- Aino butenoic Acid
12:25 - 12:50	Nini Rose Mathews <i>Instituto de Energias Renovables -UNAM, Mexico</i>	Cu-Sb chalcogenide thin films by electrodeposition and the photoelectrochemical hydrogen evolution.

12:50 - 13:10 (Eye Relaxation Break & Breakout Rooms - Greenwich Mean Time)

Poster Presentations

13:10 - 13:30	Prof. Zviad Kovziridze, Georgian Technical University, Georgia	Failure stress energy formula.
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Keynote Presentations Cont..

13:30 - 14:00	Prof. Laila Montaser <i>Medicine, Menoufia University, Egypt</i>	Advanced nano-approach for cartilage tissue engineering
	14:30 - 14:55	
14:00 - 14:30	Dr. Thomas J Webster <i>Interstellar Therapeutics, USA</i>	The bandAId: human data of artificial intelligence (AI) for improved biomaterial design and use

Oral Presentations Continues...

14:30 - 14:55	Dr. You Qiang <i>University of Idaho, Moscow, USA</i>	Nano-Watermelon: Synthesis, Nanostructures, Nanomagnetism and Applications
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***** End of Virtual Conference *****