PROCEEDINGS of ICONN-23

2nd INTERNATIONAL CONFERENCE on SUSTAINABLE NANOTECHNOLOGY AND NANOMATERIALS (ICONN - 2023)

📅 27th - 28th July, 2023

Organized by UNIVERSITY CENTRE FOR RESEARCH & DEVELOPMENT (UCRD)

In association with National University of Singapore, & University of Salento, Italy

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The second edition conference on sustainable nanotechnology aims to explore the potential of nanotechnology to provide solutions for societal and environmental challenges. Through the development of sustainable materials and clean technologies, researchers and industrial experts can reduce risks to the environment and human health while advancing progress towards the United Nations’ Sustainable Development Goals (SDGs). The conference will provide a platform to share knowledge and insights, network with peers, and contribute to the establishment of clean technologies and materials for a sustainable future. The topics for interest for conference as follows:

- Waste to Wealth
- Pollution Abatement
- Green Chemistry
- Environmental Remediation Applications
- Wastewater treatment
- Advanced Oxidation Processes
- Biomedical Applications
- Nanomaterials
- Carbon Nanotechnology
- Polymer and Ceramic Nanotechnology
- Sustainable Developments Goals
- Nano-biosensors, Nano Bioengineering, Nano mechanical devices
- Nanostructured complexes, Nano-belts, Nano- pyramids, Nano whiskers
- Self-assembled Nanostructured Systems
- Magnetic Nanoparticles
- Organic/Inorganic Hybrid Nano materials
It is with great pleasure and anticipation that we introduce the proceedings of the Second International Conference on Sustainable Nanotechnology and Nanomaterials, held at Chandigarh University in collaboration with the National University of Singapore and the University of Salento, Italy on the 27th-28th July 2023. This conference stands as a testament to the growing significance of sustainable practices in the field of nanotechnology.

Nanotechnology, with its unparalleled potential for innovation and advancement, holds the key to tackling daunting global challenges. Yet, as we harness the power of nanomaterials to revolutionize industries ranging from healthcare to energy, we must accomplish it sustainable manner. The theme of this conference underscores our commitment to explore the intersection of nanotechnology and sustainability for a sustainable environment. By bringing together researchers, academics, industry professionals, and policymakers from around the world, we aim to foster meaningful dialogue, exchange insights, technology transfer, and chart a course toward a more sustainable future.

Through a diverse array of presentations, workshops, and panel discussions, participants had the opportunity to delve into topics spanning green synthesis of nanomaterials, environmental impact assessments, life cycle analysis, and the integration of nanotechnology into sustainable development goals (SDGs). We have received 150+ submissions, out of which 46 have been selected after strict peer-review. These selected submissions are further categorized into three sections.

The collaboration between Chandigarh University, the National University of Singapore, and the University of Salento reflects the spirit of international cooperation and interdisciplinary exchange that is essential for addressing complex global challenges. We are grateful for the support and contributions of all our partners, sponsors, and participants in making this conference a resounding success.

In recognition of excellence in research and presentation, we are delighted to announce the provision of cash awards for the best presentations, sponsored by the American Chemical Society (ACS). These awards serve to incentivize and celebrate outstanding contributions to the field of sustainable nanotechnology.

As we embark on this journey towards sustainable nanotechnology, let us remain steadfast in our commitment to ethical conduct, environmental stewardship, and inclusive innovation. May the insights gained and connections forged during this conference inspire meaningful action and pave the way for a brighter, more sustainable future for generations to come.

We extend our heartfelt gratitude to all who have contributed to the success of this conference and look forward to continuing this important dialogue in the years ahead.

Sincerely,

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(Conference Convener)

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