

Fifth International Conference on
“Nanotechnology for Better Living”

NBL-2019

Jointly organized by



NIT Srinagar and IIT Kharagpur



NBL-2019

From: 7-11th April, 2019



Venue: National Institute of Technology Srinagar

In association with: SKUAST/NITs/IITs/IISERs/NISERs/USTM/SSM/State and Central Universities

For more information, please visit

www.nitsri.net/

www.iitkgp.ac.in/

www.shahnit.org/

NBL-19 will provide international forum for experts in academia, industry, and government to discuss their new ideas, research results, applications and experience on all aspects of Nanotechnology.

Chief Patrons: Prof. P.P Chakrabarti, IIT-Kharagpur

Prof. R. Sehgal, Director, NIT-Srinagar

Conference Chairpersons

Prof. S. Rubab
(Chairperson- NIT Srinagar)

Prof. P Banerji
(Chairperson-IIT K)

Dr. A Shah
General Chair/Secretary
icnbl@nitsri.ac.in

NIT Srinagar to host 5th Edition of International Conference on

"Nanotechnology for Better Living" NBL-2019 scheduled

From 7-11 April, 2019

NIT Srinagar (www.nitsri.net) in collaboration with IIT Kharagpur (www.iitkgp.ac.in) is organising the 5th edition of International Conference on "Nanotechnology for Better Living NBL -2019" from 7-11 April, 2019, in association with many prestigious institutions across globe.

The conference covers all areas of science, engineering, agriculture and medicine with an aim to gather well known National & International scientists to share new knowledge, current breakthroughs and practical challenges in this new and emerging field, which is still in infancy. NBL-19 will provide an interdisciplinary platform for experts in academia, industry and government to discuss ideas, research results, applications and experience on all aspects of Nanosciences & Nanotechnologies.

Nanosciences is regarded and acknowledged as a triumph of human ingenuity in modern times. The emerging field of nanotechnology is leading to a technological revolution in the world and is the next industrial revolution and almost all industries will be radically transformed by it. This technology would directly benefit a common man when it comes to commercial use. It has already established a beachhead in the economy in various sectors. Researchers from across academic disciplines could harvest solutions for the major crises facing the world in terms of energy, water shortages, hunger, an ailing environment, inefficient education, poverty, fatal viruses and fatal diseases using the technique developed.

Conference tutorials have been arranged for the faculty and students registered for NBL-19 joining us from many institutions within the country and beyond. Since the course on nanotechnology shall soon be introduced in secondary schools and it is obligatory to make the skilled manpower available. The invited speakers of the conference include distinguished scientists, science advisers to governments and eminent researchers from all disciplines.

The Conference host, NIT Srinagar is one of the leading institutions in north of the country, located at the bank of famous Dal Lake Srinagar (Kashmir) and is just 11 Kilometers away from the international Airport Srinagar. Srinagar is well known for its calm climate and scenic beauty and is known to world as "Paradise". It is a very popular global tourist destination, known for its gardens, wetlands, lakes and hills.

We humbly request you to encourage larger participation from your institutions/Centers to NBL-19, scheduled from **7-11 April; 2019. The deadline for abstract submission is 30th of December, 2018.** Abstracts/Manuscripts submitted to NBL-19 will be peer reviewed and accepted papers shall be published in the special issues of some prestigious journals. We are blessed with the mentorship of a prestigious institution of the world –The IIT Kharagpur.

Dr. A. Shah & Prof. P Banerji

General Chairs

Indian Institute of Technology Kharagpur: A Brief Profile

IIT Kharagpur - became the nursery where the seed of the IIT system was planted in 1951. Spurred by the success of IIT Kharagpur, four younger IITs sprouted around the country in the two following decades, and from these five came thousands of IITians, the brand ambassadors of modern India. It was the success of this one institution at Kharagpur that wrote India's technological odyssey. The present name 'Indian Institute of Technology' was adopted before the formal inauguration of the Institute on August 18, 1951, by Maulana Abul Kalam Azad. The IIT Kharagpur is one of the very few Institutions all over the world which started life in a prison house and is now of the most prestigious institution of the world. For details, please visit www.iitkgp.ac.in

National Institute of Technology Srinagar: A Brief Profile

The National Institute of Technology, Srinagar (NIT), one of the leading institutes in north of the country, had the unique distinction of becoming an Institute of National Importance under the NIT Act under the auspices of Ministry of Human Resources Development, Govt. of India. The prestigious technical institute has ten departments which cater six postgraduate and ten undergraduate programmes besides offering Ph.D. degree in all Engineering and Science disciplines. For details, please visit <http://www.nitsri.net>

Event Spectrum

- 10 Plenary talks of **distinguished scientists**
- 10 Key note addresses on Nanotechnology
- 40 Invited talks from world renowned academicians
- Meet of the heads of the scientific attaches
- Research industries interaction- Business opportunities
- Panel discussion with stalwarts
- Exhibition on world approved products/equipments
- Young Scientists Meet/ Young Innovators Meet
- Special session for Women's Working on Fly Ash
- Opportunity for Research Collaboration/ For MOUs
- Awards (Young Researcher/Young Scientist/ Best Posters)

Event Statistics

- ❖ Over 300 delegates
- ❖ Powerful deliberation by 50 experts
- ❖ Exhibitions by 50 int. companies
- ❖ Representation from 10 countries
- ❖ Poster Presentations by 100 young scientists
- ❖ Participation of 100 organizations
- ❖ Participation of 100 meritorious students

Poster- Walkway of discover & Innovation

A unique opportunity for scientists and researchers to share their innovation and research in Nanoscience & research institutes. Best posters shall be suitably rewarded. A unique platform developed for the benefit of young researchers and entrepreneurs to present their research work. It is expected to be attended by potential investors, heads of the large R & D labs venture capitalists and industry captions. Register Now!

SCIENTIFIC SESSIONS

Advanced Nanomaterials

- Synthesis and applications
- Nanocomposites / Bio-nanocomposites Materials
- Nanostructured / nonporous Materials and devices
- Nanostructured coatings, surfaces and membranes
- Carbon Nanostructures and devices/Graphene
- Polymer Nanotechnology
- Soft Nanotechnology and Colloids

Nanomaterials Fabrication, Characterization and Tools

- Green Synthesis of metal oxides
- Synthesis of Nanomaterials
- Sustainable Nano-manufacturing
- Nanoscale Materials Characterization
- Modeling and Simulation at the Nanoscale

Nanoscale Electronics

- Nano Electronics and Photonics
- Memory and logic devices, circuits and architecture for advanced CMOS technologies
- Beyond and extended CMOS devices
- Sensors based on emerging devices
- Quantum electronics
- Interconnecting nanoscale objects

Nanotech for Energy and Environment

- Nanomaterials for Clean and Sustainable Technology
- Nanotechnology for Solar Energy Collection and Conversion
- Energy Storage and Novel Generation
- Nanotech for Oil and Gas
- Nano Nuclear Materials
- Fuels Applications
- Renewable Energy Technologies
- Bio Sources for Materials and Fuels
- Green Chemistry and Materials
- Water Technologies

Nanotech in Life Sciences and Medicine

- Bionanomaterials and Tissues Engineering
- Biosensors, Diagnostics and Imaging
- Materials for Drug and Gene Delivery
- Biomarkers and Nanoparticles
- Cancer Diagnostics, Imaging and Treatment
- Drug Delivery and Therapeutics/ Cancer Nanotechnology
- Nano Robots/ DNA nanotechnology

Nanotechnology safety

- Measurement of health risk/ Exposure scenarios
- Regulation and ethical impacts

Nano Applications

- Food Technology/ Catalysis/ transportation/ Defense/ Aerospace and Vehicle Manufacturers/ Manufacturing and Construction/ Textiles/ Soil Agriculture/Electronics/Environment/ Energy/ Water purification/Medicine/Health/Economy/Cells/Sensors/Pharmacy/Coatings/Earth sci/IT

5. Conference Secretariat:

Prof. Seemin Rubab
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Dr. M. Zubair Ansari
Organizing Secretary
Department of Physics NITS

Dr. Harkirat Singh
Organizing Secretary
Department of Physics NITS

Delegate Registration Tariff

| Category | Research Scholars | | Academia/ R& D Institute/Laboratories | | Industries/Manufacturer Of equipments | | Accompanying Person | |
|----------|---------------------------|-----|--|-----|--|------|---------------------------|-----|
| Date | Upto 30 th Dec | | Upto 30 th Dec | | Upto 30 th Dec | | Upto 30 th Dec | |
| Currency | ₹ | \$ | ₹ | \$ | ₹ | \$ | ₹ | \$ |
| Amount | 2500 | 100 | 7500 | 500 | 10,000 | 1000 | 2000 | 100 |

Note: After 30th Dec 2018, 25% shall be charged extra on all above categories.

Abstract Submission: Open upto 30th December 2018

Sponsorships: Central and State Govt Funding Agencies, Industries, Manufacturing companies & Banks.

Bank Details:

Account Holder: Director NIT Srinagar
Account Name: INSPIRE
Bank Name: Jammu & Kashmir Bank
Branch Name: NIT Hazratbal Srinagar
IFSC: JAKA0RECSGR
MIRC Code: 190051054
Account No: **0391040500000001**

Sponsorships:

MEDIA PARTNERS & COLLABORATORS & SPONSORS

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The main objectives of the international conference is to provide platform for academicians, researchers and practitioners to:

- 1. Disseminate new knowledge and research on Nanotechnologies*
- 2- Share experiences and explore cutting -edge ideas of Molecular sciences*
- 3- Providing insights into the challenges, opportunities, emerging strategies of small sciences*
- 4- Providing space for panel discussions led by experts from academia and industry in Nano- revolution*
- 5- Provide a hand-shaking platform for various corporate, government organizations, including academia, research organizations and industry leaders for better coordination.*

Chairpersons

Please join us to make the event a grand success!