

**INTERNATIONAL VIRTUAL CONFERENCE
ON
ADVANCES IN MOLECULAR MATERIALS
RESEARCH**

3 – 5 FEBRUARY, 2021

At

VISVA-BHARATI, SANTINIKETAN, INDIA

ORGANISED BY

**DEPARTMENTS OF PHYSICS
VISVA-BHARATI, INDIA**



**GRADUATE SCHOOL OF SCIENCE
OSAKA UNIVERSITY, JAPAN**



**DEPARTMENT OF CHEMISTRY
JADAVPUR UNIVERSITY, INDIA**



**SUPPORTED BY
SPARC, MINISTRY OF EDUCATION
GOVERNMENT OF INDIA**



For Registration, use the following link:

<https://forms.gle/GPH7HxC57VmgWwAJA>

Registration is free. Participation certificate will be issued.

Last Date of Registration: 30th January, 2021

About the Conference

This international conference aims at connecting researchers working in the broad field of molecular materials in India and abroad. Main objective of this meeting is to provide platform to the enthusiastic researchers, including students and young faculties of universities and research institutes for coming together virtually in this pandemic time and exchange their ideas. This conference will cover important contemporary topics in various areas of molecule-based materials e.g. magnetic materials, MOFs, conducting materials including organic and super-conductors, spin cross-over solids, etc. Renowned speakers from Indian and foreign universities and research institutes will deliver talks on the recent development in their respective areas of research.

About SPARC, Ministry of Education (MoE), Govt. of India

The Scheme for Promotion of Academic and Research Collaboration (SPARC) aims at improving the research ecosystem of India's Higher Educational Institutions by facilitating academic and research collaborations between Indian Institutions and the best institutions in the world from 28 selected nations to jointly solve problems of national and/or international relevance.

About Visva-Bharati

In 1901, Nobel Laureate Rabindranath Thakur (popularly known as Tagore) setup a *Brahmacharyasrama*, a school for children at Santiniketan. He sought to realize the intrinsic values of the ancient education in India. Simplicity was a cardinal principle. Classes were held in open air in the shade of trees where man and nature entered into an immediate harmonious relationship. He dreamt of designing the educational system in such a manner that would act as a centre for religious, national and global harmony. Thus, Tagore's Santiniketan school evolved into an unconventional university, called Visva-Bharati. Founded in 1921, Visva-Bharati was declared to be a Central University and an Institution of National Importance in 1951. Visva-Bharati, since inception, is a pilgrimage for education and culture. Presently, the university is celebrating the Centenary Year. ([website: www.visva-bharati.ac.in](http://www.visva-bharati.ac.in))

Organizers

Prof. Ashis Bhattacharjee

Department of Physics, Institute of Science
Visva-Bharati, Santiniketan
India.

Prof. Yasuhiro Nakazawa & Prof. Hiroki Akutsu

Department of Chemistry
Graduate School of Science
Osaka University, Osaka
Japan.

Prof. Subratanath Koner

Department of Chemistry
Faculty of Science, Jadavpur University, Kolkata
India.

SPEAKERS & TOPICS



Prof. Hisashi Kitagawa
Division of Chemistry
Graduate School of Science
Kyoto University, Japan

Conductive Coordination Networks



Prof. Yasuhiro Nakazawa
Research Center for Thermal and Entropic Science, &
Professor, Department of Chemistry,
Graduate School of Science, Osaka University, Japan

**π -Electrons Physics in Molecule-based Charge Transfer
Complexes Showing Spin-Liquid and Superconducting
Properties**



Prof. Mario Ruben
Molecular Materials Research Unit
Institute of Nanotechnology
Karlsruhe Institute of Technology
Germany

Quantum Computing with Molecules



Prof. Sebastian Polarz
Institute of Inorganic Chemistry
Leibniz-University Hannover
Germany

Soft Materials with Tough Properties



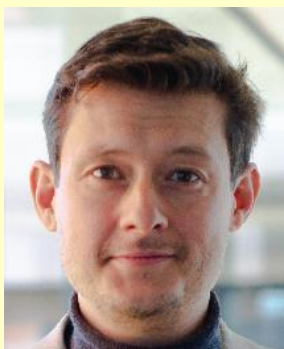
Prof. Ehesan Ali
Quantum Materials & Devices Unit
Institute of Nanoscience & Nanotechnology, Mohali, India

**Auxiliary Atomic Relay Center Facilitates Enhanced
Magnetic Couplings**



Prof. Robert Pelka
Institute of Nuclear Physics
Polish Academy of Sciences
Krakow, Poland

Towards Rationalizing Photoswitchable Behavior of Molecular Magnets Based on Cu(II) and Octacyanomolybdate(IV) Ions



Prof. Carlos Marti-Gastaldo
Instituto de Ciencia Molecular (ICMol)
Universidad de Valencia
Spain

Charge Transport, Photoactivity and Chemical Reactivity in Metal-Organic Frameworks



Prof. Sanjit Konar
Department of Chemistry
IISER-Bhopal, India

Multifunctional MOF as an Inclusive Molecular Sensor and Guest Responsive Proton Conductor

CONTACT

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“Visva-Bharati represents India where she has her wealth of mind which is for all. Visva-Bharati acknowledges India's obligation to offer to others the hospitality of her best culture and India's right to accept from others their best.”
- *Rabindranath Tagore*