

INTERNATIONAL CONFERENCE ON ENERGY MATERIALS & RECHARGEABLE BATTERIES

MANAV RACHNA UNIVERSITY, FARIDABAD, DECEMBER 19-22, 2023

CHIEF PATRONS

Smt. Satya Bhalla
Dr. Prashant Bhalla
Dr. Amit Bhalla

PATRONS

Prof. I. K. Bhat
Prof. Sangita Banga
Dr. Kameshwar Singh

GENERAL CHAIRS

Prof. P. K. Varshney
Prof. Shruti Vashist

SESSION ADVISORS

Prof. Sangsul Lee, Korea
Dr. S. Gautam, PU CH
Dr. Jai Prakash, NITH HP
Dr. Sakunthala, KITS TN
Dr. V. Kumar, Trinidad
Dr. M. Saraf, USA
Dr. D. P. Rai, PUC MZ
Dr. A. Bayon, Spain
Dr. A. Panwar, DTU DLI
Dr. P. Misra, JMI, DLI

CONFERENCE SECRETARY

Dr. Jai Parkash
Dr. Deepti Maikhuri
Dr. Anshuman Sahai

FINANCE SECRETARY

Dr. Anana Bardhan
Dr. Ruchi Gupta
Dr. Moditma
Mr. Shvam Vii

SCIENTIFIC SESSIONS

- **SS1:** Materials for Energy
- **SS2:** Fuel Cells, Solar and other energy devices
- **SS3:** Advancement with rechargeable batteries
- **SS4:** Synchrotron techniques for energy materials and batteries
- **SS5:** Computational methods for energy related research
- **SS6:** Environmental Issues of batteries and energy related materials
- **SS7:** Multidisciplinary research area

Abstract Submission

Deadline: August 15, 2023

Abstract Length: 300-500

words

Email:

abs.icemrb2023@mru.edu.in

CONVENER

Dr. Jitendra Pal Singh

CO-CONVENERS

Dr. Aditya Sharma
Dr. Shiv Kumar Dixit

SCIENTIFIC ADVISORY BOARD

Prof. S. Ramakrishna, Singapore
Prof. M.V. R. Reddy, Canada
Prof. J. V. Kennedy, New Zealand
Prof. H. C. Swart, South Africa
Prof. D. Kanjilal, IUAC, India
Prof. Nae-Lih Nick Wu, Taiwan
Prof. Vilas Pol, USA
Prof. Y. K. Misra, Denmark
Dr. Ranjith K Pai, DST India
Prof. S A. Hashmi, India
Prof. R. K. Gupta, USA
Prof. H. J. Shin, Korea
Prof. C. Sudakar, IITM India
Dr. Keun H. Chae, Korea
Prof. F. M.-Oudina, Algeria
Prof. A. Dixit, IITJ India
Prof. Docheon Ahn, Korea
Dr. Govind, NPL, India

ORGANIZING COMMITTEE

Prof. Meena Kapahi
Prof. D. K. Sharma
Prof. Haider Abbas
Prof. Y. K. Awasthi
Prof. S. K. Shukla
Dr. Sandeep Kumar
Prof. Y. K. Sharma
Prof. Shobha Shrivastava
Prof. Charu Pathak
Prof. Joginder Singh
Prof. Manpreet Kaur
Dr. Rashee Singh
Dr. Yogita Sharma
Dr. Pragati Chauhan
Dr. Arpit Sand
Dr. Aparna Vyas
Dr. Kaveri Sharma
Dr. Harsha Devnani

REGISTRATION

Early Registration

August 31, 2023

Regular Registration

September 1-October 31, 2023

On- Site Registration

December 19-21, 2023

INTERNATIONAL ORGANISING COMMITTEE

Prof. Fadei Komarov, Belarusian State University, Belarus

Prof. Sung Ok Won, Korea Institute of Science and Technology, Republic of Korea

Prof. O F Caltun, University of Iasi, Iasi, Romania (Former), Switzerland

Dr. Sylvain Franger, Paris-Saclay University, France

Dr. Dang Duc Dung, Ha Noi University of Science and Technology, Vietnam

(TO BE UPDATED)

NATIONAL ORGANISING COMMITTEE

Prof. R. K. Thapa, Sikkim Alpine University, Sikkim

Prof. P. K. Bhatnagar, Delhi University, Delhi

Prof. Ravi Kumar, National Institute of Technology, Hamripur, Himachal Pradesh

Prof. Sanjeev Agrawal, Kurushetra University, Haryana

Prof. K Asokan, University of Petroleum and Energy Studies, Dehradun, Uttarakhand

Dr. Fouran Singh, Inter University Accelerator Center, New Delhi, Delhi

Dr. RamJaney Chaudhary, UGC DAE Consortium for Scientific Research, Indore, MP

Prof. L. P. Purohit, Gurukula Kangri University, Haridwar, Uttarakhand

Prof. Nameeta Brahme, Pt. Ravishankar Shukla University, Raipur, Chhattisgarh

Prof. Kanupriya Sachdev, Malaviya National Institute of Technology Jaipur, Rajasthan

Prof. Navdeep Goyal, Panjab University, Chandigarh

Prof. Alope Kanjilal, Shiv Nader University, Uttar Pradesh

Prof. Sankar P Sanyal, Barkatullah University Bhopal, Madhya Pradesh

Prof. Ramesh Chandra Srivastava, GBPUAT Pantnagar, Uttarkhand, India

Prof. Mahavir Singh, Himachal Pradesh University, Shimla, Himachal Pradesh

Prof. K. D. Verma, Agra University, Agra, Uttar Pradesh

Prof. Rajesh Sharma, Guru Gobind Singh Indraprastha University, Delhi

Dr. Pawan Kumar Kulriya, Jawahar Lal Nehru University, Delhi

Prof. S N. Dolia, University of Rajasthan, Jaipur, Rajasthan

Prof. R K. Patel, Jai Narain Vyas University, Jodhpur, Rajasthan

Dr. Yashpal Singh Katharria, PDPM IITDM Jabalpur, Madhya Pradesh

Dr. Vinay Kumar Dhiman, Central University of Jammu, Jammu, Jammu&Kashmir

Prof. Mangey Ram, Graphic Era Hill University, Dehradun, Uttarakhand

Dr. Umesh Srivastava, Indian Oil Corporation Limited, Faridabad, India

LOCAL ORGANISING COMMITTEE

 Ms. Anjali Sharma

 Ms. Kriti Misra

 Mr. Harsh

 Ms. Muskan Agrawal

 Mr. Pankaj Sharma

 Mr. Sumit Kumar

 Ms. Komal Jain

 Ms. Sneha Bhatia

 Mr. Sachin Mittal

SESSION DETAILS

Session	Theme	Keywords
SS01	Materials for Energy	Luminescent materials, plasmonic materials, piezoelectric materials, biofuels, magnetic materials, spintronic materials, biomaterials, liquid crystals, MXenes, Energy Harvesting Materials
SS02	Fuel Cells, Solar and other energy devices	Semiconductor devices, power devices, solar cells, supercapacitors, fuel cells, Light emitting devices, Thermoelectric devices
SS03	Advancement with rechargeable batteries	Rechargeable batteries, solid state batteries, thin film batteries, flexible batteries, Metal-air batteries
SS04	Synchrotron techniques for energy materials and batteries	X-ray spectroscopy, X-ray imaging, advanced synchrotron tools for battery and energy material characterisation, Design and development of synchrotron facility
SS05	Computational methods for energy related research	Simulation, artificial intelligence/machine learning, Mathematical methods
SS06	Environmental Issues of batteries and energy related material	Recovery of spent batteries, Recycling, environmental effects of energy materials, Economical aspects, solid-waste from batteries, Safety issue
SS7	Multidisciplinary research area	Multidisciplinary approaches for energy devices, Instrumentation, Commercial development, Other relevant field showing relevance to batteries and energy materials

Abstract format and offline registration form can be downloaded from the website

<https://www.rsc.org/events/detail/76971/international-conference-on-energy-materials-and-rechargeable-batteries>

Abstract clearly mentioning the appropriate session should be submitted to abs.icemrb2023@mru.edu.in in the proper format.

Online registration form is also available at the link given below

<https://docs.google.com/forms/d/11xi7xPHeYTXcISTbj0fEumOsnunvZVhgykHHM1q3lKo/edit>

REGISTRATION DETAILS

Registration Fee#

Category	Early (August 31 2023)	Regular September October 30, 2023	On-site 1- December 19-21, 2023
M.Sc./B.Tech. Students	₹2000	₹3000	₹3500
Ph. D. Students	₹3000	₹4000	₹4500
Postdoc/Research Associate	₹4000	₹5000	₹5500
Faculty	₹5000	₹6000	₹6500
Foreigner	\$425	\$500	\$525
Participation only /Accompanying person*	₹800	₹1000	₹1200
Industry	₹10000	₹12000	₹15000

* 50% discount applicable to the participants from MRU & MRIIRS

#GST as applicable

Bank Details

Name: MANAV RACHNA UNIVERSITY PROJECT WTR

Account Number: 50100514388460

IFSC Code: HDFC0000619

SWIFT Code: HDFCINBB

Bank: HDFC Bank; **Branch Address:** SCF No. 222, SEC-09, FARIDABAD-121001, HR

Details: ICEMRB-2023

Offline registration form is also available.

ABOUT THE ORGANIZER

Conference will be organised by Department of Sciences (Physics), School of Sciences and University Instrumentation Centre, Manav Rachna University (MRU), Faridabad, India. MRU is a State Private University (established by Haryana State Legislature Act No 26 of 2014 & under section 2(f) of UGC Act 1956), offering globally relevant education.

The university is situated on Delhi-Surajkund Road and almost 35 km from Indira Gandhi International Airport, New Delhi, India. University is also approached by major railway stations in Delhi and is about 40 Km. Major tourist attractions near Faridabad are Red Fort, Akshardham temple and Lotus temple.

Refund Policy

- 100 % (in case of early registration) and 80% (in case of regular registration) refund if registration is cancelled before October 31, 2023. 70 % (in case of early registration) and 40% (in case of regular registration) refund if registration is cancelled before November 30, 2023
- No refund if registration is cancelled after November 30, 2023.
- In all cases, bank charges, if any will be adjusted from the amount to be refunded.
- In case, event is cancelled because of some avoidable reasons, 100% registration fee will be refunded.

PUBLICATION OPPORTUNITIES

Journal	RSC Advances
Guest Editor	Jitendra Pal Singh, Sangsul Lee, Sylvain Franger, Ambesh Dixit and Marzi Barghamadi
Impact Factor	4.2
Website	https://www.rsc.org/journals-books-databases/about-journals/rsc-advances/
Remark	APC, if applicable will be paid by authors
Submission Time Line	May 1, 2023-March 1, 2024
Journal	Materials Letters (In communication)
Guest Editor	Alicia Bayon, M. Saraf, A. Sakunthala, Jitendra Pal Singh and S. Gautam
Impact Factor	4.2
Website	https://www.sciencedirect.com/journal/materials-letters
Remark	Consent from Editor-in-Chief, no APC
Submission Time Line	December 30,2023-April 30, 2024
Journal	Materials Today: Proceedings
Guest Editor	Aditya Sharma, Shiv Kumar Dixit, Amrish Panwar, Jitendra Pal Singh, Vinod Kumar
Cite Score	2.8
Website	Materials Today: Proceedings Journal ScienceDirect.com by Elsevier
Remark	Participant with oral presentations are eligible, No APC
Submission Time Line	January 8, 2024-May 10, 2024
Journal	Prabha Materials Science Letters
Guest Editor	Jitendra Pal Singh and Mangey Ram
Cite Score	NA
Website	https://journals.ramartipublishers.com/PMSL/index.php
Remark	Participant with presentations are eligible, No APC
Submission Time Line	December 20, 2023- June 31, 2024

Note: Conference presentation/submission to any journal is not a guaranty of publication. Submission in each journal will be considered for publications after review process as per journal policy. In case, reviewers do not satisfy, the manuscript/revised manuscript will be rejected automatically.

APC, if applicable will be paid by the authors or their organisation. Neither ICEMRB nor MRU has any obligation of APC.

Registration Form

Personal Information

Name

Designation:

Contact Address

Mobile Number

Email Id

Presentation Information

Title

Abstract Number

Presenting Author

Registration Fee Details

Registration Fee

Payee Name

Bank Name

Unique transaction
reference (UTR) number

Accommodation, if required

Only for PhD students*

*Upto 70 and will provided based on first-come, first-served basis.

I am aware that conference “ICEMRB-2023” will take place in physical mode and there is no provision of online sessions. Thus, I will present my work at conference venue.

Signature

Name

Note: Please send filled form to info.icemrb2023@gmail.com

SPEAKERS

PLENARY TALK (50 MIN + 10 MIN INERATCION)

Prof. M V Reddy Recent advances in materials for Energy Storage Technology at New graphite world (Nouveau Monde Graphite) (NMG), Quebec, Montreal, Canada



SS1

Prof. Safir Ahmad Hashmi Title to be decided
Professor of Physics, University of Delhi, Delhi-110007, India



SS3

Prof. Pol, Vilas Energy Storage at Extreme Davidson School of Chemical Engineering, Purdue University



SS7

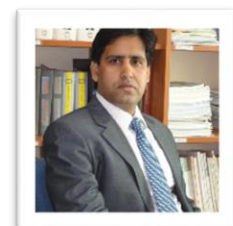
KEYNOTE (40 MIN + 5 MIN)

Prof. Rohit Srivastava Hydrogen as a viable alternate fuel
Dayalbag Educational Institution, Agara, India



SS2

Prof. Shalendra Kumar Metal oxide and carbon nanostructures as electrodes for Energy Studies, Dehradun, India



SS1

Dr. Sanjeev Gautam X-ray Spectroscopy and it's application to photovoltaic materials
Dr. SSB UIC Chandigarh



SS4

INVITED (30 MIN + 5 MIN)

Prof . Mmantsae Diale
Full Professor of Physics
SARCHI: Clean and Green Energy
Department of Physics
University of Pretoria
Pretoria
South Africa

Title
(yet to be decided)



Dr.GUNASEKARAN VENUGOPAL
Advanced Nanomaterials Lab,
Central University of Tamil Nadu,
Thiruvavur- 610005 Tamil Nadu

Green H₂ Generation using
Biomass-derived nanostructures in
Direct Sea Water

Session SS2



Dr. Anuraj Gaur

Energy Conversion and Storage
Devices: Hydroelectric Cell and
Hybrid Supercapacitors

Session SS2



Dr. Ankush Vij
Department of Physical and
Mathematical Sciences, Central
University, Haryana

Synthesis and characterization of
nanomaterials for white LEDs.
(Synchrotron Study)

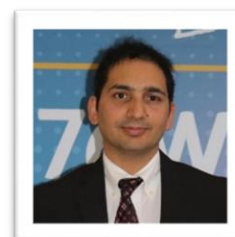
Session: SS4



Dr. Shailesh Upreti
CEO
C4V
New York, USA

Digital DNA: Synchronizing
Molecules to Machines to Build
Smart Gigafactories

Session: SS3/SS7



(Dr) Asanov Igor
SS4

Dr. Jai Prakash

Department of Chemistry, National Institute of Technology Hamirpur, Hamirpur-177005 (H.P) India

Multifunctional Materials:
Synthesis and Applications



Session: SS7

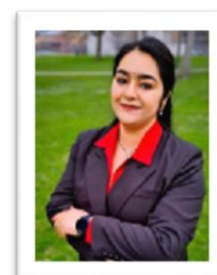
INVITED “Emerging Researcher Category” (20+ 5 MIN)

Dr. Anupma Thakur

Indiana University-Purdue University Indianapolis, Indianapolis

Session: SS1

Two-Dimensional Transition Metal Carbides and Borides for Hydrogen Evolution Electrocatalysis



Dr. Manish Kumar

Pohang Accelerator Laboratory, POSTECH, Pohang 37673, South Korea

Session: SS4

Vanadium dioxide thin films for energy saving smart windows

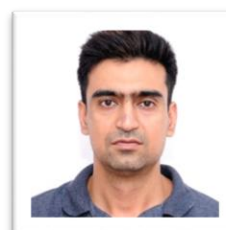


Dr. Vikas Sharma

The Hebrew University of Jerusalem, Jerusalem, Israel 9091401

Session: SS2

Transparent Structure: Impact of structure, irradiation and process for advanced applications including Space, BIPV and Tandem geometry.



Dr. Rojalin Sahu

School of Applied Sciences, Kalinga Institute of Industrial Technology (Deemed to be University), Bhubaneswar-751024, India

Session: SS1

A new insight into the ZIF-67 based triboelectric nanogenerator for self-powered robot object recognition



Dr. Deepak Kumar
Electronics and Mechanical
Engineering School (Affiliated to
Gujarat Technological University),
Vadodara, Gujarat-390008, India

Sodium-ion conducting polymer
gel electrolytes



Session: SS 3

Dr. S Janakiraman
Indian Institute of Technology
Indore

Ceramic Composite Separator
Electrolyte System for High
Temperature Lithium Ion Batteries



Session: SS3

Dr. Pramod Kumar
J. C. Bose University of Science
and technology,
YMCA, Faridabad-121006,
Haryana

Versatile Application of Iron Based
Materials



Session: SS7

Dr. Sachin Gupta
Bennett University, Noida

Title to be decided



Session: SS7

SPECIAL SESSION

Krishna Raghav Chaturvedi, Ph.D., Manuscript preparation and publication ethics

Outreach Manager, American Chemical Society

ACS International India



<https://www.rsc.org/events/detail/76971/international-conference-on-energy-materials-and-rechargeable-batteries>