

MRSI Newsletter

A quarterly publication of the Materials Research Society of India for circulation amongst its members

Volume B 23, Number 4

October 2023

From the Editors' Desk

We are very happy to bring out the latest MRSI Newsletter for your kind perusal. We just witnessed the announcement of Nobel prizes in Physiology and Medicine to Katalin Kariko and Drew Weismann for their work on nucleoside base modifications that led to the development of mRNA vaccines, in Physics to Pierre Agostini, Ferenc Krausz and, Anne L'Huillierfor their work on attosecond pulses of light and lasersand in Chemistry to Moungi G Bawendi, Louis E Brus, and Alexei I Ekimov for their work on synthesis of quantum dots. All these fields are highly relevant to materials research and allied areas.

On behalf of MRSI, we congratulate all the winners and are excited to see their path breaking work getting the due recognition. In this Newsletter you may find more details on 34th AGM of MRSI and 5th INDIAN MATERIALS CONCLAVE and also other details on the forthcoming events. Happy reading

B L V Prasad *Editor*

For more details about the activities of MRSI, members are advised to visit the society's website at

www.mrsi.org.in

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MRSI NEWSLETTER

Volume B 23, Number 4

October 2023

The MRSI Newsletter is a quarterly update published by the Materials Research Society of India. Members are requested to contribute information of interest to Materials Science community. Members can inform through the Newsletter, recognitions/awards received by them, changes in address, forthcoming events, and any interesting scientific/technological developments in the area of materials. The relevant information should be sent to the following address:

Editor

MRSI Newsletter

Materials Research Society of India IISc Campus, Bangalore 560 012, India

Email: office@mrsi.org.in

Awards & Distinctions Conferred on Members

We are happy to report that the following members of Materials Research Society of India have received awards and distinctions shown against their names. MRSI congratulates them.

•

Dr Sandhya Shenoy U Associate of The Indian Academy of Sciences, Bangalore (2023)

Dr Vasundhara Mutta SERB POWER Fellowship award

P.S: Members are requested to communicate to the Editorial office about the Awards, Honours and Distinctions they have received from various agencies.

STUDENTS' PROJECTS

MRSI would be supporting projects of students doing B.Tech, M.Tech, ME, M.Phil, Ph.D in the area of Materials Science and Technology. The projects should be undertaken under the supervision of a MRSI member. The students can submit their proposals to the MRSI office through email <office@mrsi.org.in> before October 31st 2023. After the projects are approved, the students would be supported financially (registration waiver, II class AC train travel and local hospitality) for participating in the AGM of MRSI to present the results of the projects approved.

34th AGM of MRSI and 5th INDIAN MATERIALS CONCLAVE (IndMac)

The 34th Annual General Meeting of MRSI and the 5th Indian Materials Conclave (IndMac) will be held at IIT, BHU, Varanasi during December 12-15, 2023. This meeting is intended to provide a valuable forum for interaction between scientists & technologists working in the area of materials science.

Contact:

Prof. Chandana Rath (Convenor) School of materials science and technology IIT (BHU) Varanasi 221 005,

Tel; 9451058153, 9129113336 Email : mrsi.agm2023@iitbhu.ac.in

Website: https://conferences.iitbhu.ac.in/MRSI-2023/

NOBEL PRIZE WINNERS - 2023

Nobel in Medicine

The Nobel Prize in Physiology or Medicine for 2023 was jointly awarded to Katalin Karikó (Szeged University, Szeged, Hungary; University of Pennsylvania, Philadelphia, PA, USA) and Drew Weissman (enn Institute for RNA Innovations, University of Pennsylvania, Philadelphia, PA, USA) for their pioneering work in mRNA technology, that led to COVID-19 vaccine development in a short time frame.

Nobel in Physics

The Nobel Prize in Physics 2023 will be equally shared by Pierre Agostini (The Ohio State University, Columbus, OH, USA), Ferenc Krausz (The Ohio State University, Columbus, OH, USA), and Anne L'Huillier (Lund University, Lund, Sweden). This was given for their ground breaking experimental techniques that helped in generating attosecond pulses of light which will help in understanding electron dynamics in matter.

Nobel in Chemistry

For the discovery and synthesis of quantum dots, Moungi G Bawendi (Massachusetts Institute of Technology (MIT), Cambridge, MA, USA), Louis E Brus (Columbia University, New York, NY, USA), and Alexei I Ekimov (Nanocrystals Technology Inc., New York, NY, USA) were conferred the 2023 Nobel Prize in Chemistry. Each of them will share 1/3 of the prize.

G C JAIN MEMORIAL PRIZE FOR THE BEST Ph.D THESIS IN MATERIALS SCIENCE

The Council of MRSI decided to award an annual prize one in each calendar year for the best Ph.D. thesis in the area of Materials Science. The funds for this prize have been raised by the friends and students of Dr. G C Jain. The Guidelines and the Application form are furnished hereunder:

Guidelines

- 1. The prize will be given each year for the best Ph.D thesis in the broad multi disciplinary field of Materials Science, in disciplines such as Condensed Matter Physics, Chemistry, Biology, Metallurgy, Ceramics and Chemical Engineering.
- 2. Criteria for Selection
 - -Completion of Ph.D thesis from any recognized Indian University/Research Institute/National Laboratory during the calendar years 2022 and 2023 for the current prize.
 - -Three recommendation letters should be enclosed including one from the thesis supervisor along with a one-page write-up highlighting the prime results of the thesis.
 - -Quality of the work will be judged in the first stage by the Publications, Reports and Patents resulting from the thesis work.
 - -The shortlisted theses will be selected after peer reviewing by the committee. Such shortlisted theses work must be presented by the students concerned in oral format at the AGM of MRSI. The final selection will be done at the AGM by a suitably constituted committee.
- 3. The award will have a cash prize of Rs. 6000/- and a certificate from MRSI.
- 4. The soft copy of the application in the prescribed format reproduced alongside should be sent by email (office@mrsi.org.in) to the Secretary, MRSI so as to reach him on or before October 31st, 2023.

Application Form

photo

G C Jain Memorial Prize for the Best Ph.D Thesis in Materials Science

1. Name of the Applicant

2. Address : Office

Telephone : Email :

3. Academic Record

(in brief) (Degree/year of passing/University):

- 4. Title of the Ph.D Thesis:
- a) The discipline or subject in which the Ph.D degree was awarded:
- b) Name of the University/Laboratory/Institute where the Ph.D work was carried out
- c) Name of the Research Supervisor
- d) Date of submission of the thesis
- e) Date of Award of Ph.D
- f) One page write-up of the thesis highlighting the prime results (to be enclosed) enclosed/not enclosed
- 5. Recommendation Letters

(from the thesis supervisor and

2 other experts)

(to be enclosed) enclosed/not enclosed

6. List of Publications based on the thesis work

in Journals, Reports, Conferences, Patents (to be enclosed) Give Title of the Paper, Authors, Journal, Vol / Page/ Year for Journal Publications

enclosed/not enclosed

7. Any additional information

Date: Signature

New Members Enrolled between July 1 and September 30, 2023

Life Members

LMB3718 Geerthana M 396, Southmedu, Kattukkottai, Deviakkurichi, Attur Salem 636112 Tel: 9578427773 Email: geerthanaphysics@gmail.com, geertham@srmist.edu.in	LMB3719 Bharathi Palanisamy 1/59, Chinna Kalan Thottam,Valayapalayam, K.N.K Pudur (Post), Avinsahi, Tirupur 641654 Tel: 8220619773 Email: pavibharathi1995@gmail.com, bharathipavi1995@gmail.com	LMB3720 Dhayanithi Duraisamy Nanotechnology Research Center, Kattankulathur Campus, Chengalpattu 603203 Tel: 9626654744 Email: dhaya.phy@gmail.com, dhayabsc@gmail.com
LMB3721 Senthil Kumar E Nanotechnology Research Centre (NRC) Hi-Tech Building, Main Campus, SRM Institute of Science and Technology, Chennai 603203 Tel: 9843915660 Email: senthile2@srmist.edu.in, esenthil5@gmail.com	LMB3722 Navaneethan M Nanotechnology Research Centre (NRC) Room No H105, Hi-Tech Building, Main Campus, SRM Institute of Science and Technology, Chennai 603203 Tel: 8754420369 Email: navaneem@srmist.edu.in. m.navaneethan@gmail.com	LMB3723 Nissamudeen K M Department of Physics, Kannur University, Payyannur Campus, Edat P O, Payyannur 670327 Tel: 9387838499 Email: nisamkm@kannuruniv.ac.in, nisamkm@gmail.com
LMB3724 Dhrubanka Sarma H9, Jogesh Das Path, Hatigaon, Guwahati 781038 Tel: 8368037839 Email: dhrubankasarma0503@gmail.com	LMB3725 Sasmita Mohapatra FR-47, NIT Rourkela Campus, Rourkela 769008 Tel: 9337223845 Email: sasmitam@nitrkl.ac.in, sasmita05@gmail.com	LMB3726 Jiten Ghosh CSIR-CGCRI, 196, Raja S. C. Mullick Road Jadavpur, Kolkata 700032 Tel: 9433501022 Email: jiten@cgcri.res.in, jitenghosh11@gmail.com
LMB3727 Nanda Gopal Sahoo Department of Chemistry, DSB Campus, Kumaun University, Nainital 263001 Tel: 9149135437 Email: ngsahoo@yahoo.co.in, ngsahoo@kunainital.ac.in	LMB3728 Ayachithula Nagarjuna Department of Humanities and Sciences, Teegala Krishna Reddy Engineering College (R9),Medbowli,Meerpet, Hyderabad, Telangana 500097 Tel: 9493921384 Email: a.nagarjunaphysics@gmail.com,	LMB3729 John Mondal Department of Catalysis & Fine Chemicals, CSIR-Indian Institute of Chemical Technology [IICT], Tarnaka Hyderabad 500007 Tel: 8008982593 Email: johncuchem@gmail.com, johnmondal@iict.res.in
LMB3730 Nilanjan Dey Birla Institute of Technology and Science, Pilani. Hyderabad Campus. Jawahar Nagar, Kapra Mandal, Hyderabad 500078 Tel: 9748281394 Email: nilanjan@hyderabad.bits- pilani.ac.in, nil	LMB3731 Palash Sanphui Room no 701E, Department of Chemistry, University Building, Potheri, Kattankulathur, Chennai 603203 Tel: 9168260808 Email: palashi@srmist.edu.in, sanphui.palash@gmail.com	LMB3732 Susnata Pramanik Department of Chemsitry, University Building, SRMIST, KTR Campus, Chennai 603203 Tel: 9641951572 Email: susmatap@srmist.edu.in, chemsusnata@gmail.com

LMB3733 Goutam Kumar Kole Department of Chemistry, CV Raman Research Park (RRP-316), SRM Institute of Science and Technology, Kattankulathur 603203 Tel: 8454970609 Email: goutamks@srmist.edu.in, gkkole@gmail.com	LMB3734 Priyadip Das Depart of Chemistry, SRM Institute of Science and technology, CV Raman Research Park, 8th floor, Room No- 808, Kattankulathur, Potheri, Chennai 603203 Tel: 7358416732 Email: priyadip@srmist.edu.in, priyadipcsmcri@gmail.com	LMB3735 Sayan Das 213B, Prince Anwar Shah Road, Kolkata 700033 Tel: 9123669298 Email: sayan_das_chem@yahoo.co.in, sayan.das@msit.edu.in
LMB3736 Anamika Kalita Physical Sciences Division, Institute of Advanced Study in Science and Technology (IASST), Vigyan Path, Pachim Boragaon, Garchuk, Guwahati Assam 781035, Tel: 9706990846 Email: anamik.kalita01@gmail.com	LMB3737 Gaurav Shukla Department of Physics, IIT Bombay, Powai, Mumbai 400076 Tel: 7379458831 Email: gauravshukla@iitb.ac.in, gauravs.physicist@gmail.com	LMB3738 Bharathi D No. 1/16, Amman Kovil Street, Ramapuram, Chennai 600089 Tel: 8220730470 Email: bharathid1994@gmail.com, dbharathi1994@yahoo.com
LMB3739 Monisha Mohan School of Interdisciplinary Design and Innovation, Indian Institute of Information Technology Design and Manufacturing, Kancheepuram-Chennai, Off Vandalur- Kelambakkam Road, Melakottaiyur Chennai 600127 Tel: 9398576034 Email: monisha@iiitdm.ac.in, monipharma92@gmail.com	LMB3740 Anita Subhash Swami Flat B4, Indraprastha Phase II, Suncity Rd. Anand Nagar, SinghGad Rd, Pune 411051 Tel: 9952983628 Email: swami.anita@gmail.com, swamians@srmist.edu.in	LMB3741 Sanjay Raghunath Gadakh B-501, Natures Pride, Westwind Meadows, Chandshi, Nashik 422003 Tel: 9921507417 Email: gadakhsr@gmail.com, sanjaygadakh@kthmcollege.ac.in
LMB3742 Venkatesh Kadbur Prabhakar Rao Department of Mechanical Engineering Birla Institute of Technology and Science, Pilani, Pilani Town 333031 Tel: 9986378171 Email: venkateshkp.rao@pilani.bits- pilani.ac.in, venkateshkp.rao@gmail.com	LMB3743 Radha Raman Mishra Department of Mechanical Engineering, Birla Institute of Technology and Science, Pilani, Pilani Campus Pilani 333031 Tel: 9411280207 Email: rraman.mishra@pilani.bits- pilani.ac.in, radharaman562@gmail.com	LMB3744 Ritik Mohanty C/o Prabir Kishore Mohanty, Champapur, Gopinathpur, Bahugram, Cuttack 754200 Tel: 9861796651 Email: ritikphy.cet@gmail.com, ritik.mohanty98@gmail.com
LMB3745 Krishnaraj Kundavu Kundavu House, Ira post and Village, Ullal, Dakshina Kannada, Ullal 574323 Tel: 7082640382 Email: krishnaraj868@gmail.com, krishnaraj_k@iitb.ac.in	LMB3746 Debraj Choudhury Department of Physics, Indian Institute of Technology, Kharagpur 721302 Tel: 7044359130 Email: dchoudhuryphy@gmail.com, debraj@phy.iitkgp.ac.in	LMB3747 Parveen Saini CSIR-National Physical Laboratory (CSIR-NPL), Dr. K. S. Krishnan Marg, New Delhi 110012 Tel: 9810344856 Email: pksaini@nplindia.org, parveensaini580@gmail.com

1.102740	11.602740	1.002750
LMB3748	LMB3749	LMB3750
Anuushka Pal	Shailendra Kumar Jha	Sarika Yadav
Flat no 104, Navyug Apartments,	Qr. No.: SA - 322, CSIR-NML	616/78B, Aziznagar Colony Sitapur
Sector 9, Rohini	Residential Complex, Agrico,	Road, Lucknow 226021
New Delhi 110085	Jamshedpur 831009	Tel: 9452042751
Tel: 9582774440	Tel: 7488631102	Email: sarikayadav126@gmail.com,
Email:	Email: skjha@nmlindia.org,	sarikayadaviitk@gmail.com
anuushka.pal@mirandahouse.ac.i	skjha.chem@gmail.com	g
n, palanuushka@gmail.com	Skyndi-enem@gmain-eem	
LMB3751	LMB3752	LMB3753
Kaushik Parida	Devendra Singh	Syed Noeman
Polymer and Process Engineering	E-502, Alok Paradise, Near Metro Mall,	#93, 2nd Main, Bannimantap C
Department, IIT-Roorkee,	Vastral, SP Ring Road, ,	Layout, Mysore 570015
Roorkee 247667	Ahmedabad 382418	Tel: 7337744684
Tel: 8360012351	Tel: 9769047401	Email: noemansyed89@gmail.com,
Email: kaushik.parida@iitr.ac.in,	Email: dsingh.iitb@gmail.com,	snt89@rediffmail.com
kaushik.parida@gmail.com	dsinghc2008@gmail.com	
LMB3754	LMB3755	LMB3756
Thangappan Ramasamy	Prakash Muthuramalingam	Kumaran Vediappan
Department of Energy Science &	#722, Sir CV Raman Research Park	#RRP-405, Sir C. V. Raman Research
Technology, Periyar University,	(RRP), Department of Chemistry, SRM	Park, Department of Chemistry, SRM
Salem 636011	Institute of Science and Technology,	Institute of Science and Technology
Tel: 9884452793	SRM Nagar, Potheri	(SRM IST), SRM Nagar, Chennai
Email:	Kattankulathur 603203	603203
thangappan.rm@gmail.com,	Tel: 7550238008	Tel: 7338703240
rm.thangappan@gmail.com	Email: prakashspm@gmail.com,	Email:
Tim.mangappan@gmam.com	prakashm4@srmist.edu.in	electrochemkumaran@gmail.com,
	prakasiiii+@siiiist.edu.iii	kumaranv@srmist.edu.in
		Kumarany@simist.cdu.m
LMB3757	LMB3758	LMB3759
Parasa Ramakoteswara Rao	Kartikeya Shukla	Mihir Ghosh
2-10,Seri Amaravaram,	Department of Chemical Engineering,	Green Pearl Apartment, Phase 1.
Kanchikacherla 521180	NIT, Tiruchirappalli 620015	Block C/305. Periyar Street,
Tel: 8106523579	Tel: 8126517379	Kattankulathur 603203
Email:		Tel: 7063896443
	Email: shukla@nitt.edu,	
ramakotesh26parasa@gmail.com,	kartikeyashr@gmail.com	Email: mihir.chem86@gmail.com,
ramakotesh@pvpsiddhartha.ac.in		mihirg@srmist.edu.in
LMB3760	LMB3761	LMB3762
Umesh Chandra Srivastava	Animesh Talapatra	Maiyalagan T
Badi Mata Ka Mandier, Imali	Saroj Tari-4, C1, 3rd Floor, 20 Pan Para	Electrochemical Energy Laboratory,
Mahadev Near (Dhundhi Katra),	Bye Lane, Bhadrakali,	Department of Chemistry, SRM
Mirzapur-Up 231001	Uttarpara, Hooghly 712232	Institute of Science and Technology,
Tel: 9560726909	Tel: 9681659618	Kattankulathur 603203
Email: umeshmitul@gmail.com,	Email: animesh.talapatra@gmail.com,	Tel: 8220322594
ucsrivastava@amity.edu	animesh talapatra@yahoo.co.in	Email: maiyalagan@gmail.com,
	uuuw, uuoooom	maiyalat@srmist.edu.in
LMB3763	LMB3764	LMB3765
Jayanta Samanta	Ved Prakash	Payel Bandyopadhyay
VILL BAR KASHIM PUR,	Powermat Global Commitment,	UB 709A, University Building, SRM
	· · · · · · · · · · · · · · · · · · ·	
P.O HAT SARBERIA,	KHASRA NO 40//21, 22min, 45//1,	Institute of Science and Technology,
Paschim Medinipur 721146	10 & 11/1/1 Bahadurgarh Bypass,	Kattankulathur, Chengalpettu
Tel: 9564084440	Bahadurgarh, Kasar	603203
Email:	Jhajjar 124508 , Tel : 9810277691	Tel: 8902229231
jayantasamanta000@gmail.com	Email: rnd@powermatindia.com	Email: payel tua@yahoo.co.in,
jayamasamama000@gmam.com		
Ja yantasamanta 000(a) gman.com		payelb@srmist.edu.in

LMB3766 Ganesh Pandian M Department of Chemistry SRM Institute of Science & Technology Potheri Kattankulathur, Kattankulathur 603203 Tel: 9788207564 Email: ganeshpandibdu@gmail.com, ganeshpm@srmist.edu.in	LMB3767 Maheswaran Rathinam Department of Physics SRM IST, Kattankulathur, Chengalpet 603203 Tel: 9940034927 Email: maheswar@srmist.edu.in, r.maheswaran13@gmail.com	LMB3768 Anbumozhi Angayarkanni Somasundaram Department of Physics and Nanotechnology, SRM Institute of Science and Technology, Kattakulathur Chengalpattu 603203 Tel: 9361297791 Email: angaiphy@gmail.com, anbumoza@srmist.edu.in LMB3771
Govindhan Maduraiveeran Department of Chemistry, SRM Institute of Science and Technology, SRM Nagar, Kattankulathur Chengalpattu 603203 Tel: 8682011472 Email: maduraig@srmist.edu.in, pgmadura@gmail.com	Alok Pratap Singh Chauhan Dept. of PMSE, Jaypee Institute of Information Technology, A-10, Sector 62, Adjacent to Electronic City, Noida, U.P. 201309 Tel: 9999505381 Email: chau.han.alok@gmail.com, alok.chauhan@jiit.ac.in	Rachana Sain Room No-77, Gandhi Smriti Hostel (old), IIT BHU, Varanasi, Up 221005 Tel: 9650183297 Email: krachna1920@gmail.com, rachanasain.rs.mst20@iitbhu.ac.in
LMB3772 Nitesh Kumar Chourasia E-15, Swastik Apartment, Nawada Housing Complex, Dwarka Mor New Delhi 110059 Tel: 7376508317 Email: niteshphyzics@gmail.com, riteshphyzics@gmail.com	LMB3773 Prashant Tripathi Village and Post- Mahangupur Dhahar, Tahsil-Burhanpur, Azamgarh 223223 Tel: 8004709951 Email: pra.jest01@gmail.com, prashant.physics.bhu@gmail.com	LMB3774 Somaiah Chowdary Mallampati Dept of ME, Prasad V. Potluri Siddhartha Institute of Technology Kanuru, Vijayawada 520007 Tel: 9550640640 Email: somaiahchowdary@pvpsiddhartha.ac. in, somaiahchowdary@gmail.com
LMB3775 Naga Swapna Sri Movva Dept of ME, Prasad V. Potluri Siddhartha Institute of Technology (PVPSIT), Kanuru, Vijayawada 520007 Tel: 8309880172 Email: mswapnasri@pvpsit.ac.in mswapnasri@pvpsiddhartha.ac.in,	LMB3776 Raghu Kumar Bandlamudi Dept of ME, Prasad V. Potluri Siddhartha Institute of Technology (PVPSIT), Kanuru, Vijayawada 520007 Tel: 9866925051 Email: braghu5051@gmail.com, raghu@pvpsiddhartha.ac.in	LMB3777 Satish Kumar MVH Dept of ME, Prasad V. Potluri Siddhartha Institute of Technology (PVPSIT), Kanuru Vijayawada 520007 Tel: 9885804636 Email: satish_mvh2005@gmail.com, mvhsathishkumar@pvpsiddhartha. ac.in
LMB3778 Niranjan Kumar MSR Dept of ME, Prasad V. Potluri Siddhartha Institute of Technology (PVPSIT), Kanuru, Vijayawada 520007 Tel: 9440491356 Email: niranjan.m356@gmail.com,	LMB3779 Ravi Prakash School of Materials Science and Technology, Indian Institute of Technology (BHU), Varanasi 221005 Tel: 7275320400 Email: ravip.rs.mst16@itbhu.ac.in	LMB3780 Vishnuvardhan S Fatigue & Fracture Laboratory, CSIR- Structural Engineering Research Centre, CSIR Campus, Taramani, Chennai 600113 Tel: 9444006734 Email: svvardhan@serc.res.in, svvardhan@yahoo.in

LMB3781 Piyush Kumar Gupta Department of Life Science, Sharda School of Basic Sciences and Research, Sharda University, Greater Noida 201309 Tel: 7017866485 Email: piyush.kumar1@sharda.ac.in,	LMB3782 Pius Augustine Dept. of Physics, Scared Heart College, Thevara, Kochi 682013 Tel: 7994647087 Email: piustine@gmail.com,	LMB3783 Rabin Rajan J Methikkalam Mar Ivanios College (Autonomous), Thiruvananthapuram, Bethany Hills, Nalanchira PO, Thiruvananthapuram 695015 Tel: 9940576909 Email: rabin.rajanj@mic.ac.in, rabinrajanj@gmail.com
LMB3784 Suryanarayana J C-513, Department of Physics, IIT Hyderabad Kandi, Sangareddy, Hyderabad 502284 Tel: 9676212499 Email: surya@phy.iith.ac.in, jsurya.iit@gmail.com	LMB3785 Nalin Prashant Poddar H.N 37 A, Kasim Bazar, In front of Govt. Middle School, Munger 811201 Tel: 9472429857 Email: nalinppoddar@gmail.com, info.nalin23@gmail.com	LMB3786 Naveen Kumar Department of Chemistry M D University, Rohtak, Haryana 124001 Tel: 9996415102 Email: kumarnaveen.chem@gmail.com, naveenkumar.chem@mdurohtak.ac.in
LMB3787 Nidhi Manhas D/O Ranbir Singh, Village- Barota, Puronangal, P.O- Mansoorpur, Dist-Hoshiarpur, Panjab 144211 Tel: 9876991508 Email: nidhi@ignou.ac.in nidhimanhas17@gmail.com,	LMB3788 Kirti Sankhala Office no 2, CETSD, IIT Jodhpur, Karwar, Jodhpur 342037 Tel: 8829084640 Email: kirtisankhala@iitj.ac.in, 30sankhalakirti@gmail.com	LMB3789 Arindam Adhikari E 501 Prakrtii Housing Society, Baner- Balewadi Road, Balewadi, Pune 411045 Tel: 9028004416 Email: arindam.adhikari@gmail.com, aadarsh.innovations@gmail.com
LMB3790 Akshay S Department of Physics, Maharani Lakshmi Ammanni College for Women Autonomous, Malleswaram, Bangalore 560012 Tel: 8217045112 Email: akshay@mlacw.edu.in, akshayskmr1993@gmail.com	LMB3791 Kala R Department of Applied Chemistry, Cochin University of Science and Technology, Ernakulam 682022 Tel: 7373852607 Email: kalaramakrishnan@gmail.com, kala@cusat.ac.in	LMB3792 Hitesh Borkar Department of Physics, National Institute of Technology, Warangal 506004 Tel: 8447287127 Email: bhitesh@nitw.ac.in, bhitesh08@gmail.com
LMB3793 Swapan K Pati JNCASR, Jakkur Campus, Bangalore 560064 Tel: 9448560474 Email: pati@jncasr.ac.in, swapan.jnc@gmail.com	LMB3794 Mahendra Singh S/o-Prem Narayan Singh, Village- Chandauki, chandauki, musafirkhana, Musafirkhana, Uttar Pradesh - 227813 Tel: 8948050662 Email: mahendrame.sch@nita.ac.in, mahendra.singh9451@gmail.com	LMB3795 Shefali Jayswal 51, Ghosh Para Road P.O Hazinagar District: North 24 Parganas Naihati, Kolkata, West Bengal 743135 Tel: 9709190734 Email: jayswal.shefali106@gmail.com, jayswal.safu106@gmail.com
LMB3796 Chandra Sekhar Mishra Thermwin Technologies, lane 2, Brundaban colony, Beheramal Sarala Nursing college, Jharsuguda,Odisha 768201 Tel: 9937080571 Email: jitu.mishraindia@gmail.com	LMB3797 Ziyauddin Seikh Vill+P.O-Pearbera, P.S-Sonamukhi, Dist-Bankura, Sonamukhi 722208 Tel: 6290017007 Email: mailziya28@gmail.com, ziyauddin774@gmail.com	LMB3798 Chandrasekar Perumalveeramalai 7/11 Veeragoundanpatty Kadavoor TK, Karur 621315 Tel: 9944749391 Email: pv_chandrasekar@yahoo.com pv_chandrasekar@rediffmail.com,

CALENDAR OF EVENTS

November 21-24, 2023, International conference on advanced materials, syntheses and characterization 2023, contact: Dr. H. M. Pathan, Convener, Department of Physics, Savitribai Phule Pune University, (Formerly University of Pune) Pune-411007, Tel: 020-25622842, 91-9623459878, Email: pathan@physics.unipune.ac.in

December 11-16, 2023, IUMRS-ICA 2023, Kyoto, Japan, website: https://mrm2023.jmru.org/

December 12-15, 2023, 34th AGM and 5th Indian Materials Conclave, contact: Prof. Chandana Rath, School of Materials Science and Technology, IIT (BHU) Varanasi 221 005, Te; 9451058153, 9129113336, Email: mrsi.agm2023@iitbhu.ac.in

January 2024, International conference on functional materials for next generation. Details awaited

February 7-10, 2024, National Physicists' Conclave 2024, Department of Physics and Nanotechnology, SRMIST, Kattankulathur – 603203, Tamil Nadu, website: https://npc2024.in, https://www.srmist.edu.in/events/npc-2024

February 26-19, 2024, International conference on advanced functional materials and devices , Website : https://afmdsrmist2024.in/

Members are requested to give information about the conferences/symposia/workshops they are organizing well in advance so that the same can be inserted in the "calendar of events"

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