International Conference on Energy Materials and Devices

(ICEMD-2022)

(January 11& 12, 2022)

Technical Program

Day -1, 11th January 2022

Joining link (for inaugural session, Keynote Talk, and session 1& 2): https://bhumeeting.webex.com/bhu-meeting/j.php?MTID=m29c947c1ae94bb9aeafcbc0fa6f686ac

9:15AM-10:35 AM

Inaugural Session

- 9:15 am: Digital floral tributes to our Visionary founder Bharatratna Mahamana Pt. Madan Mohan Malviya ji
- 9:20 am: BHU Kulgeet by Ms. Poulomi Bhattacharya (B.Sc. 3rd year Student)
- 9:30 am: Welcome Address by Chairperson (ICEMD-2022) and Principal (MMV) Prof. Inu Mehta
- 9:35 am: About the conference by Prof. Neelam Srivastava (Convener ICEMD-2022)
- 9:40 am: Address by Special Guest Prof Madhoolika Agrawal, the Dean (Faculty of Science)
- 9:45 am: Address by Special Guest Prof. Anil Kumar Tripathi, the Director (Institute of Science)
- 9:50 am: Inaugural Address by Chief Guest Dr. N Kalaiselvi, Director, CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi, India
- 10:20 am: Presidential remark by Prof V. K. Shukla (Honourable Rector, Banaras Hindu University)
- 10.30 am: Formal vote of thanks by Prof. Bhaskar Bhattacharya (Convener ICEMD-2022)

10:35 AM -11:20 AM **Keynote Talk**

Sustainable Research approach for future Energy Storage devices

Dr. R. L. Sharma Chairman and CEO-SPEL Technologies Pvt. Ltd. PUNE, India

Session-1

Chairperson- Prof. U. P. Singh

| | Charles 1101 Ct 1 Charles | | | | |
|-----------|---------------------------|--------------------------------------|---------------------------------|--|--|
| 11:20 AM- | Plenary | Dr. S Venkata Mohan, Senior | Microbial Electrochemical | | |
| 11:55AM | | Principal Scientist, IICT, Hyderabad | Systems with Multi-Facet | | |
| | | | Applications: Emerging Trends | | |
| 11:55 AM- | I-2 | Prof. Vellaichamy Ganesan, | Highly Dispersed Metal | | |
| 12:20 PM | | Department of Chemistry, Institute | Porphyrins/Phthalocyanines on | | |
| | | of Science, Banaras Hindu | Various Supports to Replace Pt- | | |
| | | University, India | based Catalysts in Fuel Cells | | |

Prof. Prabhakar Singh, Department

of Physics, IIT (BHU) Varanasi,

12:20 PM-

12:45 PM

I-10

India

Session-2

Bandgap Engineering and Its

Applications

Chairperson- Prof. Akhilesh Kumar Singh

| 12:50 PM- | Plenary | Dr. Venugopalan Srinivasan, | "Lithium Batteries: Present |
|------------------|-------------------------------|---------------------------------|--------------------------------|
| 1:25 PM | | Ex-Head, Battery Division, PSG, | Scenario and Future Prospects" |
| | | URSC, Bangalore | |
| 1:25 PM- I-3 Dr | | Dr. A. Manuel Stephan, CSIR- | Lithium-Sulfur Batteries: A |
| 1:50 PM | 50 PM Central Electrochemical | | Futuristic System |
| Institute, India | | | |
| | | | |

1:50 PM- 2:40 PM LUNCH

 $1^{st}\ day\ afternoon\ Sessions\ (for\ session\ 3,\ 4\ and\ 5)\ joining\ link:\ \underline{https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=m4045fb6f4e9cca0c015380c9ca32832c}$

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| | Cital Prison 1101 112010 20 112010 1 1011 Ju | | | | |
|----------|--|---------------------------------------|-----------------------------------|--|--|
| 2:40 PM- | I-1 | Prof. S. A. Hashmi, | Redox-Active Gel Polymer | | |
| 3:05 PM | | University Of Delhi, India | Electrolytes for High-Performance | | |
| | | | Carbon Supercapacitors | | |
| 3:05 PM- | I-5 | Prof. Vanchiappan Aravindan, | Research Progress on Li-Ion | | |
| 3:30 PM | | Indian Institute of Science Education | Capacitors | | |
| | | and Research (IISER), Tirupati, | | | |
| | | India | | | |
| 3:30 PM- | I-6 | Prof. Ravindra Kumar Gupta, King | Cobalt-Based Solid Redox | | |
| 3:55 PM | | Saud University, Saudi Arabia | Mediators | | |

Session-4

Chairperson- Prof. S. A. Hashmi

| 4:00 PM- | I-7 | Prof. Pramod Kumar Singh, Sharda | Energy Devices Based on Waste |
|----------|---------|------------------------------------|--------------------------------|
| | 1-/ | | |
| 4:25 PM | | University, India | Material Electrodes and Ionic |
| | | | Liquid Based Solid Electrolyte |
| 4:25 PM- | I-8 | Prof. Muhd Zu Azhan Yahya, | Effects Of Mo Substitution on |
| 4:50 PM | | National Defence University of | Electrochemical Performance of |
| | | Malaysia | Na3V2(PO4)3/C Cathode |
| | | | Composite for Sodium-Ion |
| | | | Batteries |
| 4:50 PM- | Plenary | Prof. Arumugam Manthiram, the | Sustainable Next-Generation |
| 5:25 PM | | University of Texas at Austin, USA | Battery Technologies |

Session-5

Expert Panel - Prof. M. V. Reddy, Prof. Prabhakar Singh, Prof. Yogesh Kumar, Prof. Kamlesh Pandey, Prof. Sandeep Tomar, Prof. Ranveer Kumar

| 5:30 PM- | Contributed Paper Oral Presentation |
|----------|--|
| 8:30 PM | Please See Annexure 1 of the Technical Session |

International Conference on Energy Materials and Devices

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Technical Program

Day -2, 12th January 2022

2nd day Forenoon joining link (for session 6 and 7): https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=mb66f290965894f8a28407c8e8d267cbe

Session-6

Chairperson-Prof. Tan Winie

| | | <u> </u> | |
|-----------|---------|--------------------------------------|----------------------------------|
| 9:30 AM- | I-9 | Prof. M.V. Reddy, Nouveau Monde | Recent Advances in Energy |
| 9:55 AM | | Graphite (New Graphite World), | Storage Materials |
| | | Montréal, Québec, Canada | |
| 9:55 AM- | Plenary | Prof Xiulei "David" Ji, Oregon State | Ion Charge Carriers: Unlock the |
| 10:30 AM | | University, USA | Potential of Storage Battery |
| | | | Chemistry |
| 10:30 AM- | I-4 | Prof. Anshuman Dalvi, Birla | Solid Polymer Electrolytes |
| 10:55 AM | | Institute of Technology and Science | Dispersed with NASICON |
| | | Pilani, India | Structured Nano-Crystallites for |
| | | | All-Solid-State Supercapacitor |
| | | | Applications |
| | | | · |

Session-7

Chairperson-Prof. Pramod Kumar Singh

| 11:00 AM- | I-11 | Prof. Tan Winie, Institute of Science, Iron-Based Composite Electrode | |
|-----------|------|---|-----------------------------------|
| 11:25 AM | | Universiti Teknologi MARA, Shah | for Application in Supercapacitor |
| | | Alam Malaysia | |
| 11:25 AM- | I-18 | Prof. Deepak Kumar, Faculty of | Investigations On Glyme Based |
| 11:50 AM | | Weapon Technology, Electronics | Na+ Conducting Polymer Gel |
| | | and Mechanical Engineering School, | Electrolytes for Electrochemical |
| | | Vadodara, India | Applications |
| 11:50 AM- | I-13 | Prof. Amit K. Chakraborty, National | Carbon Nanostructures for |
| 12:15 PM | | Institute of Technology Durgapur, Electrochemical Superca | |
| | | India | |
| 12:15 PM- | I-14 | Prof. Preetam Singh, IIT (BHU) | Pseudocapacitive Metal- |
| 12:40 PM | | Varanasi, India | Carboxylate Electrodes for Hybrid |
| | | | Supercapacitors |

12:40 PM- 1:30 PM LUNCH

 2^{nd} day afternoon joining link (for session 8, 9 and 10): $\underline{https://bhu-meeting.webex.com/bhu-meeting/j.php?MTID=m50e069dcd13ad5f0725458afb9b59884}$

Session-8

Chairperson- Prof. Anshuman Dalvi

| 1:30 PM- | I-15 | Prof. Udai Pratap Singh, School of | Advancement In Kesterite Based |
|----------|------|------------------------------------|--------------------------------|
| 1:55 PM | | Electronics Engineering, Campus- | Thin-Film Solar Cells |
| | | 12, KIIT, Bhubaneswar-India | |

| 1:55 PM- 2:20 PM | I-16 | Prof. S. P. Pandey, Teerthanker Mahaveer University, Moradabad, U.P. (INDIA) | Solar Cell Technology: Optimization of Processing Parameters of Crystalline Si Solar Cells | |
|---------------------|---|--|--|--|
| 2:20 PM- 2:45 PM | I-17 | Prof. Kamlesh Pandey, University of Allahabad, India | Synthesis and Application of Polymer/Nanodiamond Composites | |
| 2:45 PM- 3:10 PM | I-12 | Prof. Rajan Jose, Faculty of Industrial Sciences & Technology, Malaysia | Sustainable Materials & Processes for Electrochemical Capacitors | |
| | | Session-9 | | |
| | | Chairperson - Prof. Amit K. Cha | kraborty | |
| 3:15 PM- 3:40 PM | I-19 | Prof. Yogesh Kumar, ARSD College, University of Delhi, India | Advanced Electrode Materials for High-Performance Electrochemical Supercapacitors with Different Electrolytes | |
| 3:40 PM- 4:05 PM | I-20 | Prof. Agnieszka Pawlicka, Universidade De São Paulo, Brazil | Eco-Friendly Polymer Electrolytes for Electrochromic Devices | |
| 4:05 PM- 4:30 PM | I-21 | Prof. Diogo M.F. Santos, Instituto Superior Técnico, Universidade De Lisboa, Portugal | Towards Efficient Green H2 Production by Alkaline Water Electrolysis | |
| 4:30 PM- 4:55 PM | I-22 | Prof. M. G. Buonomenna, Chemical Fundamentals of Technologies from the Italian Ministry for Instruction, University and Research (MIUR), Italy | Lithium-sulfur batteries: where are we now? | |
| | | Session-10 | | |
| Expert I | | of. Rajan Jose, Prof Preetam Singh, Pro Gupta, Prof. S. P. Pandey, Dr. Piyush | | |
| 5:00 PM- 7:30 PM | 5:00 PM- Contributed Oral Paper Presentation Please See Annexure 2 Of the Technical Session | | | |
| | | ** | | |

Valedictory Function

7:30 PM

Annexure 1: Oral Presentation Schedule of Contributed Papers

(All the oral presenters please remember that submitting a detailed video for Conference YouTube is must, only then your short (5min) presentation will be allowed here)

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Technical Program-Oral Presentation of Contributed papers

Day -1, 11th January 2022 Abstract Number Time Slot Your Name Department Institution Title Of Abstract PG Dept of Effective efficiency Applied enhancement in Silicon Physics and Photovoltaics with alternative Sanjit Ballistics C1 Kumar Rath 5:30 PM F M University ARC and gettering Bharatiya Jain Characterization of ZnTe thin Sanghatana's Arts films prepared by cathodic Science & electrodeposition as a back Shivaji Madhukar Commerce contact buffer layer to 5:35 PM C2 CdS/CdTe solar cells. Sonawane Physics College Structural, optical and electrical properties of the Dr. Harit ZnS and Zn1-xCdxS Nanoparticles for Solar Cell Kumar **APS** University 5:40 PM C3 Sharma Physics Application Rewa Structural and ion transport study of CS-based Dr. A. L. Biopolymer electrolyte films 5:45 PM C4 Saroj **Physics** I. Sc., BHU PG Department Capacitance of of Applied ppy/rGo/Ni(OH)2 5:50:P M. H. Physics and Fakir Mohan nanocomposite for M C5 Priyadarsini **Ballistics** University supercapacitor applications Selective and sensitive determination of dual drugs on a molecularly imprinted MMV. Banaras polymer/ reduced graphene-C6 Ritu Singh Hindu University modified electrode 5:55 PM Chemistry Ouantum chemical calculations on molecules with donor- π -acceptor structures for efficient Ankit Applied BML Munjal Organic Field Effect 6:00 PM **C**7 Kargeti Sciences University Transistor Investigation for Structural, Electronic and Optical characterization of lithiumbased chalcopyrite Banasthali semiconductors by using Jvoti C8 Kumari 6:05 PM Physics Vidyapith density functional theory

| | | Vishal | | Birla Institute of | Review on electrochemical |
|-----------|-----|--------------|-------------|---------------------|---|
| 6:10 PM | C9 | Rimal | Chemistry | Technology | kinetics of Carbon Dots |
| 0.101111 | C | Talliul | Chemistry | reennology | Functional biochar derived |
| | | | | | from Desmostachya bipinnata |
| | | Dr. Meenal | | | for the application in energy |
| 6:15 PM | C10 | Gupta | Physics | Sharda University | storage/conversion devices |
| | | | <i></i> | , | Heating effect, UV radiation |
| | | | | | and Trap depth parameters of |
| | | Dr. | | Shri | rare earth doped Yttrium |
| | | Manmeet | Applied | Shankaracharya | oxide for dosimetry |
| 6:20PM | C11 | Kaur Bhuie | Physics | Technical Campus | applications |
| | | | | | Fast and stable electrolyte |
| | | Bibek | | Birla Institute Of | scandium co-doped barium |
| 6:25 PM | C12 | Kumar Sonu | Physics | Technology Mesra | cerate |
| | | | | | Synthesis of H ₂ O ₂ refluxed |
| | | | School of | | LaFeO3 loaded as filler in |
| | | | Material | Indian Institute of | poly (vinylidene fluoride) for |
| | ٠ | Vishwa | Science and | Technology | high energy density storage |
| 6:30 PM | C13 | Pratap Singh | Technology | (BHU) | applications |
| | | | | | Simple and Rapid |
| | | | | | Ecofriendly Synthesis of |
| | | 3.4 | | 01 1 11 ' ' | NiO/RGO Nanocomposites |
| | | Ms. | | Sharda University, | using Guava Leaf Extract and |
| 6.25 DM | C14 | Priyanka | Dhasias | Deshbandhu | their Physicochemical |
| 6:35 PM | C14 | Lamba | Physics | college | Characterization |
| | | | | | Structural, Electronic and |
| | | | | Shri | Mechanical Properties of Hybrid h-BN/Graphene 2D |
| | | Dr. B | Applied | Shankaracharya | layers: Density Functional |
| 6:40 PM | C15 | Keshav Rao | Physics | Technical Campus | Approach |
| 0.401111 | C13 | Resila v Rao | Tilysics | Teenmear Campus | Synthesis And |
| | | | | | Characterization of Aryl |
| | | | | | Substituted 4 - Thiazolidino |
| | | | | | A, B – Unsaturated Ketones |
| | | | | Shri | and Dimethyl amino |
| | | Dhirendra | | Venkateshwara | Methylene Ketones And |
| 6:45 PM | C16 | Kumar | Chemistry | University | Their Biological Activity |
| | | | • | - | Impact of the bath |
| | | Aparna | | | temperature on CdTe thin |
| | | Satish | Department | Savitri bai Phule | films prepared by |
| 6:50 PM | C17 | Ukarande | of Physics | Pune university | electrochemical technique |
| | | | | | Analytical Analysis of |
| | | | | | Concentration of Charge |
| | | | | Shri Vaishnav | Carriers in Polymer |
| | | Dr Amit | | Vidyapeeth | Electrolytes Through |
| 6:55 PM | C18 | Saxena | Physics | Vishwavidyalaya, | Different Models |
| | | | | | AC conductivity and Ion |
| | | | | , | dynamics behavior study of |
| 7.00 53.5 | G10 | D . D | Physics | Banaras Hindu | PVA based polymer |
| 7:00 PM | C19 | Pooja Rawat | Department | University | electrolyte films |
| | | Prem | | Indian Institute of | Comparative study of |
| 7.05 DM | C20 | Chandra | Dlangia | Technology | Physical Properties of Cold- |
| 7:05 PM | C20 | Bharti | Physics | (BHU) | sintered CuPbBr3 and |

| | | | | | CuPbI3 Perovskite for Solar |
|---------|-----|-----------|-------------|---------------------|-------------------------------|
| | | | | | Cell Applications |
| | | | | | Synthesis, characterization, |
| | | | | | and energy storage |
| | | Dr. SWETA | | Mahatma Gandhi | application of |
| 7:10 PM | C21 | SINGH | Physics | Central University | carbon/graphene aerogel |
| | | | Department | | Graphitic carbon nitride- |
| | | | of | | based heterojunction |
| | | Monika | Environment | | nanocomposite for |
| 7:15 PM | C22 | Vikal | Science | IGNOU | degradation of organic dyes |
| | | | | | Future Prospects of |
| | | Subhrajit | | | Biopolymer- Ionic Liquid |
| 7:20 PM | C23 | Konwar | Physics | Sharda University, | Polymer Electrolyte |
| | | | | Indian Institute of | |
| | | | | Technology | |
| | | Swarnima | | (Banaras Hindu | Structural and bandgap |
| 7:25 PM | C24 | Singh | Physics | University) | studies of Cs(Sn1/2Pb1/2)Br3 |
| | | | School of | Shri | Role of Natural Dye in |
| | | Varsha | Applied | Venkateshwara | Photovoltaic Performance of |
| 7:30PM | C25 | Yadav | sciences | University | Dye Sensitized Solar Cell |
| | | | | | Structural and Photo- |
| | | Ashish | | | conduction studies of NiO as |
| | | Kumar | | | a Hole Transport Material for |
| 7:35 PM | C26 | Ranjan | Physics | IIT (BHU), | Perovskite Solar Cells |

Annexure 2: Oral Presentation Schedule of Contributed Papers

(All the oral presenters please remember that submitting a detailed video for Conference YouTube is must, only then your short (5min) presentation will be allowed here)

International Conference on Energy Materials and Devices (ICEMD-2022)

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Technical Program-Oral Presentation of Contributed papers

Day -2, 12th January 2022

| | 1 | T | Day -2, 12 | January 2022 | |
|------------|--------------------|--------------|-------------|---------------------|--|
| Time | Abstract Number | | | | |
| Slot | A Z | Your Name | Department | Institution | Title of Abstract |
| | | | | | Impact of In-Situ Formed |
| | | | Centre For | | Silica Nanospheres on |
| | | Dr. Sujeet | Nanoscience | Veer Bahadur | Physicochemical and Ionic |
| | | Kumar | and | Singh Purvanchal | Transport Properties Of PEO- |
| 5:00 PM | C27 | Chaurasia | Technology | University, | Based Hybrid Electrolytes |
| | | _ | | | Development of porous |
| | | Pawan | | D S B Campus, | carbon from Polyvinyl |
| - 0 - D) - | G2 0 | Singh | | Kumaun | chloride (PVC) and its |
| 5:05 PM | C28 | Dhapola | Chemistry | University, India | application in supercapacitor |
| | | | School of | | Structural, Microstructure and |
| | | D 17" | Materials | HTT. (D | Dielectric Properties of |
| 5 10 D) 4 | G20 | Dr. Vijayeta | Science & | IIT (Banaras | La2NiMnO6 Double |
| 5:10 PM | C29 | Pal | Technology | Hindu University), | Perovskites Ceramics |
| | | | | | Influence Of Co-Doping on |
| | | | | | Structural, Morphological, |
| | | | | | And Electrical Properties Of |
| | | Maniaha | | | Ruddlesden-Popper-Type Smsrnio4-8As A Cathode |
| 5.15 DM | C20 | Manisha | Dlavaina | HT (DIHI) | |
| 5:15 PM | C30 | Chauhan | Physics | IIT (BHU), | Material For IT-SOFC |
| | | | | | To Study DC Conductivity |
| | | Raghubir | | | And Dielectric Properties of Composition [PVA:CS:PEG]- |
| | | Kumar | | Banaras Hindu | Agno3 Based Biopolymer |
| 5:20 PM | C31 | Prajapati | Physics | University | Electrolyte Films |
| J.20 F WI | CJI | i rajapati | 1 Hysics | Oniversity | Synthesis And |
| | | | | | Photoluminescence Studies of |
| | | | | | Lanthanide Doped |
| | | Manisha | | | Ca9Y(VO4)7 Polycrystalline |
| 5:25 PM | C32 | Sharma | Physics | IIT BHU | Material |
| J.2J 1 1VI | C32 | Silarina | 11175105 | Indian Institute of | Electrical Properties of |
| | | Uma | | Technology | Laxsr1-Xtio3-Δ As SOFC |
| 5:30 PM | C33 | Sharma | Physics | (BHU) | Electrode Material |
| 3.30 T IVI | 033 | Silarina | 11175105 | (DIIO) | Synthesis and |
| | | | | | Characterization of Modified |
| | | | | | Moringa Olifera Seed Pod |
| | | | | M.S Ramaiah | Nanocellulose Based |
| | | Jyothy G | | University of | Hydrophobic Polyurethane |
| 5:35 PM | C34 | Vijayan | Chemistry | Applied Sciences | Xerogels |
| | | J J | | I II | <u> </u> |

| | 1 | 1 | 1 | | Doolara Dhoon Assisted |
|-----------|-----|-------------|---------------|---------------------|-------------------------------|
| | | | D | D1(1.1 | Backup Phase Assisted |
| 5 40 D) 4 | G25 | D 1 1 1 . | Department | Bharathiar | Mntio3 Electrodes for |
| 5:40 PM | C35 | D. Lakshmi | of Physics | University | Supercapacitor Applications |
| | | | | | Design of Two Novel Dyes |
| | | | | | Having Maximum |
| | | Tabish | Applied | BML Munjal | Absorption in Infrared |
| 5:45 PM | C36 | Rasheed | Science, | University, | Region: A DFT Investigation |
| | | | Amrita Centre | | Rechargeable Alkali Metal |
| | | | for Nano Sci. | | Ion Batteries With |
| | | Dona Susan | and Molecular | Amrita Vishwa | Chemically Reduced |
| 5:50 PM | C37 | Baji | Medicine | Vidyapeetham, | Fe[Fe(CN)6] Cathode |
| | | | | | Lithium-Rich Layered |
| | | | | Amrita Center for | Cathode for Advanced |
| | | | | Nanosciences and | Lithium-Ion Batteries – |
| | | SILPASRE | Nano Energy | Molecular | Particle Size and Operation |
| 5:55 PM | C38 | ESJ | Division | Medicine | Temperature Effects |
| | | | | | Monthly Energy Yield |
| | | | | | Assessment of Solar |
| | | | | University of | Photovoltaic System Under |
| | | Niti | | Delhi- Shyamlal | Uniform Irradiance and |
| 6:00 PM | C39 | Agrawal | Physics | College | Partial Shaded Conditions |
| | | | | | Band Gap Engineering of |
| | | | School Of | | Batio3 Perovskite Oxide by |
| | | | Materials | Indian Institute of | Vanadium Doping and |
| | | Chandra | Science and | Technology | Observation of Photovoltaic |
| 6:10 PM | C40 | Bhal Singh | Technology | (B. H. U.) | Response |
| | | M Infanta | | Bharathiar | Carbon Captivated Nasno2 |
| 6:15 PM | C41 | Diana | Physics | University | Anode for Na-Ion Batteries |
| | | | • | - | Combustion Preparation of |
| | | | | Banaras Hindu | Reduced Graphene Oxide for |
| 6:20 PM | C42 | Ramesh A | Physics | University | Supercapacitor Application |
| | | | | • | Effect of Ionic Liquid on |
| | | | | | Structural and Ion Transport |
| | | Devesh | | | Properties Of CS-PVA-NaI |
| | | Chandra | Department | Institute of | Based Biopolymer |
| 6:25 PM | C43 | Bharati | of Physics | Science, BHU, | Electrolyte Films |
| | | - | <i>J</i> | , -, | Optimization of Mose2 Back |
| | | Sachin | | | Interface Layer for High |
| | | Vijay | Department | Savitribai Phule | Efficient CIGS Solar Cells: |
| 6:30 PM | C44 | Desarada | Of Physics | Pune University, | Numerical Analyses |
| | | | <i>J</i> | | Enhancement In the |
| | | | | | Dielectric Properties In Rare |
| | | Satyendra | | Indian Institute of | Earth Cerium Doped Linbo3 |
| | | Kumar | Ceramic | Technology | For High-Temperature |
| 6:35 PM | C45 | Satyarthi | Engineering | (BHU) | Applications |
| 2.22 11.1 | 2.0 | | | \ - / | Influence Of Filler Content |
| | | | | | on Magnesium Conducting |
| | | | | Bharathiar | Chitosan Biopolymer |
| 6:40 PM | C46 | Adlin Helen | Physics | University | Electrolyte |
| 301111 | 2.0 | Kamana | 11,5105 | · | |
| | | Kumari | | | Catalytic Behaviour of |
| 6:45 PM | C47 | Mishra | Physics | IIT (BHU) | Hydrothermal Processed NiO |
| J I III | | 1 | | () | |

| | | | | | One-Step Green Synthesis of |
|---------|-----|--------------|--------------|-------------------|-------------------------------|
| | | | Department | Bharathiar | Znfe2o4 Anodes for Li-Ion |
| 6:50 PM | C48 | T. Kiruthika | of Physics | University | Batteries |
| | | | Department | | |
| | | | of | Universiti Tunku | |
| | | | Mechanical | Abdul Rahman, | Poly (methyl methacrylate) |
| | | Tejas | and Material | Sungai Long | doped with ionic liquid for |
| 6:55 PM | C49 | Sharma | Engineering | Campus | energy storage devices |
| | | | | • | Preparation, characterization |
| | | | | | and application of low |
| | | Sushant | | | viscosity ionic liquid doped |
| 7:00 PM | C50 | Kumar | Physics | Sharda University | solid polymer electrolyte |
| | | | - | | Electrical, Structural and |
| | | | | | Electrochemical performance |
| | | | | | of Polyethylene oxide doped |
| | | | | | with 1-ethy-3- |
| | | Abhimanyu | | Gautam Buddha | methylimidazolium |
| 7:05 PM | C51 | Singh | Physics | University | tricynomethanide ionic liquid |
| | | | | | Mg (ClO4)2 mixed |
| | | | Department | | crosslinked corn starch: A |
| | | | of Physics | Banaras Hindu | flexible and high conducting |
| 7:10 PM | C52 | Dipti Yadav | (MMV) | University | polymer-in-salt-electrolyte |
| | | | | | Structural and Optical |
| | | | | | Investigations on Direct |
| | | Kalyan B. | | Ahmednagar | current (DC) magnetron |
| 7:15 PM | C53 | Chavan | Physics | College | sputtered CZTS thin film |
| | | | | | Green synthesis of bismuth |
| | | | | | ferrite nanoparticle for PVA- |
| | | | | | PANI-BFO nanocomposite |
| | | | | Babasaheb | membrane to study the ionic |
| | | Diptarka | | Bhimrao Ambedkar | conductivity with varying |
| 7:20 PM | C54 | Roy | Physics | University | relative humidity |