



International Conference on Electronic Materials and Applications (ICEMA-2022)

September 16 - 17, 2022

Organised by

A.N. College, Patna, Bihar, India

Accredited Grade "A" (3rd Cycle) by NAAC with CGPA 3.27/4
(Patliputra University, Patna, India)

Program Schedule

September 16, 2022

- Registration- 8.30AM to 9.30AM
- Inauguration- 10:00AM to 11:00AM (Library Hall)

Time		Speaker	Title of Talk
11.00 A.M.- 12.00 P.M.	Keynote Address	Dr. S. N. Jha	Synchrotron Radiation Sources: A Powerful Tool for Research & Technology
12.00 P.M.- 12.45 P.M.	T-1 Invited Talk-1	Prof. Rajeev Ranjan	Piezoelectricity: Current Research Trend

Lunch Break-1.00-2.00PM

Technical Session-1(Post Lunch) Venue: Conference Room (Shatabdi Bhawan)			
2.00P.M.-2.45. P.M.	Invited Talk- 2	Prof. Jawar Singh	Neuromorphic Computing: Devices and Circuits
2.45P.M.-3.30. P.M.	Invited Talk- 3	Dr. Chandra Shekhar	Topology in Materials
3.30PM- 3.40PM	T.1-OP-1	Arun Kumar	Magnetic ground state of $\text{Ba}(\text{Fe}_{1/2}\text{Sn}_{1/2})\text{O}_{3-\delta}$: A potential giant-dielectric constant material for technological applications
3.40PM- 3.50PM	T.1-OP-2	Rajeev Kumar	Medical Cyclotron: A Revolutionary Change in Medical Sciences
3.50PM- 4.00PM	T.1-OP-3	Triloki Rana	Refinement in dielectric and ferroelectric properties of $\text{BaBi}_4\text{Ti}_4\text{O}_{15}$ layered ceramics doped with neodymium
4.00PM-4.10 PM	T.1-OP-4	Sonu Rani	Study on optimization of annealing temperature to prepare pure nanocrystalline phase of Bismuth Ferrite

Technical Session-2 (Parallel)			
Venue: Conference Room (Administrative Block)			
2.00P.M.-2.45. P.M.	Invited Talk-4	Prof. Naveen Kumar Nishchal	Opto-electronic, Asymmetric Cryptosystem
2.45P.M.-3.30. P.M.	Invite Talk-5	Dr. Giacomo Benvenuti	Chemical Beam Vapour Deposition technique with Sybilla equipment: a review
3.30PM-3.40PM	T.2-OP-1	Allarakha Sikander	Optical vortex lattice generation through in-line phase modulation
3.40PM-3.50PM	T.2-OP-2	Mukesh Shekhar	Impedance Spectroscopic Study on La and Ti co-doped Bismuth Ferrite
3.50PM-4.00PM	T.2-OP-3	Rahul Kumar	Pattern Identification using MACH Filter through Optical Correlation
4.00PM-4.10 PM	T.2-OP-4	Ravi Shankar	Biomass derived DNA Dot Hydrogel via hybridization mediated self-assembly for sustained release of drug

Poster Presentation			
Venue: Vanue: Technical Block			
4.30PM to 5:30PM	T-1	Poster Presentation	Dept. of Environmental Sciences (Floor-3)
4:30 PM to 5:30 PM	T-2	Poster Presentation	Dept. of Electronics (Floor-2)

- Tea Break- 5:30 PM – 6:00 PM
- Cultural Program- 6.00 PM-7.00 PM
- Dinner- 7.30 P.M. onwards

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Technical Session-3			
Venue: Conference Room (Administrative Block)			
10.00 A.M.- 10.45 A.M.	Invited Talk-6	Mr. Mrigesh Parashar	Future of Internet of things: The Good, The Bad and Beyond Imagination
10.45 A.M.- 11.30 A.M.	Invited Talk-7	Prof. Ziyauddin Khan	Sustainable Batteries
11.30 A.M.- 11.40A.M.	T.3-OP-1	Shailaj Kumar Shrivastava	Voltage noise in high- t_c superconducting thin films
11.40 A.M.- 11.50AM	T.3-OP-2	Ruchi Rashmi	A Measured I/O Data Approach to Design a PI Control for a Non-linear Model
11.50 A.M.- 12.00P.M.	T.3-OP-3	Vagish Kumar Jha	Communications Using Smart Radio Frequency Energy Harvesting: Opportunities and Challenges
12.00 P.M.- 12.10P.M.	T.3-OP-4	Hareram Kumar	Big data churning for institutional applications

Technical Session-4 (Parallel)			
Venue: Conference Room (Shatabdi Bhawan)			
10.00 A.M.- 10.45 A.M.	Invited Talk-8	Dr. R. J. Choudhary	Tuning the Electronic and Magnetic Properties of Functional Magnetic Oxide System via Strain
10.45 A.M.- 11.30 A.M.	Invited Talk-9	Dr Rajib Nath	Fabrication and Measurement of Functional Material Based Electronic Devices
11.30 A.M.- 11.40A.M.	T.4-OP-1	Digvijay Narayan Singh	Probing the effect of sintering temperature on structural and ferroelectric properties of Li-doped (K, Na)NbO ₃ perovskites
11.40 A.M.- 11.50AM	T.4-OP-2	Bibek Kumar Sonu	A Fast and Stable Electrolyte BaCe _{0.8-x} Zr _{0.2} Sc _x O _{3-δ} for Intermediate Temperature Solid Oxide Fuel Cell
11.50 A.M.- 12.00P.M.	T.4-OP-3	Vivek Kumar	Hydroelectric cell fabrication using nanoporous zinc substituted magnesium ferrite for generation of green electricity
12.00 P.M.- 12.10P.M.	T.4-OP-4	Kumar Brajesh	The creation of low-power synthesis techniques for highly effective eco-friendly piezoelectric sensor/actuator materials

Technical Session-5 Venue: Conference Room (Shatabdi Bhawan)			
12.15 P.M.- 1.00 P.M.	Invited Talk- 10	Prof. D. Mohan	Arsenic Removal from Water: Employing Nano-particles Produced Through an Environment –Friendly Approach

Lunch Break-1.00-2.00PM

2.00 P.M.-2.45 P.M.	Invited Talk- 11	Dr. G. Kale	Alginate Mediates Environmentally Sustainable Green Process for the Preparation of Functional Ceramic Nano-Powder
2.45 P.M.-2.55 P.M.	T.5-OP-1	Parimal Tudu	Study of the optical and structural properties of CdS nanoparticles through the green chemical approach using Pleurotus ostreatus mushroom extract
2.55 P.M.-3.05 P.M.	T.5-OP-2	Nilesh Kumar Ram	Multivariate and Spatial Analysis Studies of Gopalganj for Air Pollution Assessment
3.05 P.M.-3.15 P.M.	T.5-OP-3	Navnita Kumari	Nanoleaves: Step towards greener technologies for energy harvesting
3.15 P.M.-3.25 P.M.	T.5-OP-4	Suman Kumari	Magnetic Properties and Hyperthermia Application of Cobalt Zinc Ferrite Fibers

Poster Presentation Venue: Technical Block			
3:00 PM to 4:30PM	T-3	Poster Presentation	Dept. of EWM (Floor-1)
3:00PM to 4:30 PM	T-4	Poster Presentation	Dept. of Electronics (Floor-2)
3:00PM to 4:30 PM	T-5	Poster Presentation	Dept. of Environmental Sciences (Floor-3)

Tea Break: 4:00PM to 4:30 PM

4.30 P.M.- 5.15P.M.	Plenary Talk	Dr. Arun Kumar	Science and Technology as a Vector of Social Change: Paradigm Shift
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- Valedictory Session & Certificate/Prize Distribution- 5.15 PM onward (Library Hall)