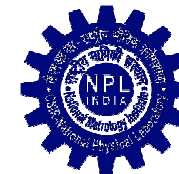




# International Conference on Electrochemical Science and Technology-2024



**Focus Theme: Towards Sustainable Development in Electrochemical Technologies**

**18-20 September 2024**

**Venue: Auditorium, CSIR- NPL, Dr. K. S. Krishnan Marg, New Delhi- 110012**

## Programme Schedule

**Day 1** | **18-09-2024** | **Wednesday**

### **Registration**

(08:15 – 09:00)

### **Inauguration**

(09:00- 11:45)

Welcome speech by Dr S.T. Aruna, President, ECSI

About ECSI by Prof. E.S. Dwarakadasa, former ECSI President

About ICONEST 2024 by Dr. S. P. Singh, Co-Chairman

Inaugural Address by Dr (Mrs) N. Kalaiselvi, DG CSIR & Secretary DSIR

Release of Souvenir

Address by Prof. Venugopal Achanta, Director, CSIR-NPL

Vote of Thanks by Dr. Ezhil Selvi, Convener

National Anthem

Group Photo

**Inauguration of Exhibition and High Tea**

## (Technical Sessions)

Day 1

18-09-2024

Wednesday

<b>Sessions 1: NPL Auditorium</b>			
<b>Plenary Session I</b>			
<b>11.45 - 12.25</b>	<b>Plenary Lecture 01:</b> Prof. Bernard Normand, University of Lyon, France		
<b>12.25 - 13.05</b>	<b>Plenary Lecture 02:</b> Prof. Daniel J. Blackwood, Materials Sci. & Engg., National University of Singapore		
<b>13.05- 13.45</b>	<b>LUNCH BREAK</b>		
<b>Technical Sessions 1 - 3</b>			
<b>13:45-15.25</b>	<b>Parallel Session 1: HRD Hall A Analytical Electrochemistry: Sensors</b>	<b>Parallel Session 2: HRD Hall B Electrochemical energy systems</b>	<b>Parallel Session 3: HRD Hall C Materials Science, Surface Engineering &amp; Metal Finishing</b>
	<b>KL 01:</b> Dr. Somenath Roy, CGCRI	<b>KL 03:</b> Prof. Dilip. K. Sarkar, UQC, Canada	<b>ECSI- N.M. Sampat Award Lecture: Dr N Rajasekaran</b>
	<b>KL 02:</b> Prof. Pranjal Chandra, IIT BHU	<b>IT 01:</b> Dr M. Santosh, CSIR-CIMFR	<b>KL 04:</b> Prof. Rajeev Gupta, NCSU, USA
	OP 01: Chita Ranjan Patra, IGCAR	OP 20: Sreelakshmi Paruvayakode, IIT Madras	<b>IT 02:</b> Dr. A. K. Satpati, BARC
	OP 02: Syama S, IIT Madras	OP 21: Mohammad A. Hasnat, Shahjalal University of Science and Technology	OP 62: Sourashis Biswas, IGCAR
	OP 03: Ramya Kanagaraj, CECRI	OP 22: Aash Mohammad, Rajiv Gandhi Institute of Petroleum Technology, Amethi	OP 63: J. Chaithra, Kuvempu University
	OP 04: Mary Mathews, CECRI	OP 23: Sharath Kumar B, Kuvempu University	OP 64: M. Yazhmozhi, CECRI
	OP 05: Tejaswini Nayak, CFTRI	OP 24: Sheetal Solanki, IIT Jodhpur	OP 65: Nikash Naorem, IIT Hyderabad
			OP 66: A. Dharshini, Anna University
<b>15:30-16:15</b>	<b>Tea &amp; Poster session (PP-1 to PP-35)</b>		
<b>16:15 – 16.45</b>	<b>Prof. T.L. Rama Char Lecture: Prof RR Sonde, BITS-Pilani</b>		
<b>16.45 – 17.45</b>	<b>Launching of Prof. E.S. Dwarakadasa Distinguished Lecture &amp; Lecture by Prof. Rajan Ambat</b>		

<b>18.00 - 19.00</b>	<b>Cultural Program</b>
<b>19.00 Onwards</b>	<b>Dinner</b>

**Day 2**

**19-09.2024**

**Thursday**

<b>Sessions 1: NPL Auditorium</b>			
<b>Plenary Session II</b>			
<b>9.00 - 09.50</b>	<b>Plenary Lecture 03:</b> Prof. John Irvine, School of Chemistry, Univ. of St Andrew, U.K.		
<b>Endowment Lecture</b>			
<b>9:50 – 10:30</b>	<b>Dr S.R. Rajagopalan Endowment Lecture:</b> Prof. K. Vijayamohanana Pillai, Dean, IISER, Tirupati		
<b>10.30 -10.45</b>	<b>Tea Break</b>		
<b>Technical Sessions 4 - 6</b>			
<b>10.45 – 13.30</b>	<b>Parallel Session 4: HRD Hall A</b> <b>Analytical Electrochemistry: Sensors</b>	<b>Parallel Session 5: HRD Hall B</b> <b>Electrochemical energy systems:</b> <b>Batteries</b>	<b>Parallel Session 6: HRD Hall C</b> <b>Electrochemistry</b>
	<b>ECSI Metrohm Award Lecture</b> <b>Dr. Venkata Mohan, IICT</b>	<b>ECSI Dr K Elaya Perumal Award</b> <b>Lecture</b> <b>Dr. Rajan Ambat, DTU</b>	<b>ECSI Mascot Award Lecture</b> <b>Dr. Rakesh Barik, CECRI</b>
	<b>KL 05 :</b> Dr Ashish Kumar Mishra, IIT BHU	<b>KL 06 :</b> Prof. Kothandaraman, IIT Chennai	<b>KL 08 :</b> Prof. Rama Kant, DU
	<b>IT 03:</b> Prof. Sanghamitra, ICT	<b>KL 07:</b> Prof. T N Narayanan, TIFR, Hyderabad	<b>IT 04:</b> Dr. Somak Chatterjee, BITS Pilani
	OP 06: D. Sumanth, FMKMC College	OP 25: M.G.Priyadharshini,, Kongu Engineering College, Erode	<b>IT 05:</b> Dr. Samarendra Pratap Singh, SNIOe
	OP 07: Sharmila Prashanth, Yenepoya Research Centre	OP 26: Karsimran Singh, DU	OP 70: S. Shan, IIT Madras
	OP 08: Sharmila B.M, FMKMC College	OP 27: A. Surender, IIT Jodhpur	OP 71: Anoop Naikkath, IIT Madras

	OP 09: Priyadarshini Sriram, SAstra	OP 28: Ashmi A, Indian Institute of Space Science and Technology	OP 72: Neha Yadav, DU
	OP 10: Ratul Paul, IIT BHU	OP 29: Sujatha D, CSIR-CECRI	OP 73: Sinu Chandran, IGCAR
	OP 11: Amit Kumar, DU	OP 30: Krishnendu K S, IIST	OP 74: Neha, DU
	OP 12: S. Sriram, Yenepoya	OP 31: Rajshree Dugani, IIT Bombay	OP 107: Kalyan Raj, BMS
	OP 13: Antony Nitin Raja, St. Xaviers College Jaipur	OP 32: Ankita Chauhan, IIT Roorkee	OP 76: Sivasubramanian J, NIT Rourkela
<b>13.30- 14.15</b>	<b>LUNCH BREAK</b>		

**Day 2** | **19-09-2024** | **Thursday**

<b>14.15-14.45</b>	<b>Gold Sponsor Lecture: Shri Lalit Handa, Spray Engineering Devices Ltd.</b>		
<b>14:45-15:00</b>	<b>Bronze Sponsor Lecture: Patrick Chapon, Horiba France</b>		
<b>Tea Break</b>			
<b>Technical Sessions 7 - 9</b>			
<b>15.15-17.45</b>	<b>Parallel Session 7: HRD Hall A Materials Science, Surface Engineering &amp; Metal Finishing</b>	<b>Parallel Session 8: Hall B Electrochemical energy systems: Batteries</b>	<b>Parallel Session 9: Hall C Electrochemistry</b>
	<b>ECSI Mayanna Endowment Lecture Dr. S.P. Singh, CSIR-NPL</b>	<b>ECSI Amara Raja Award Lecture 1 Dr. Surendra Kumar Martha, IIT Hyderabad</b>	<b>Dr. S. Krishnamurthy Memorial Lecture Prof. Raj Kishore, Delhi University</b>
	<b>KL 09 : Dr. David Ibanez, Metrohm</b>	<b>ECSI Amara Raja Award Lecture 2 Dr. S. Anandan, ARCI</b>	<b>IT 11: Dr. Vaishali Umrania, SAC, ISRO</b>
	<b>IT 05: Samarendra Pratap Singh, SNIoE</b>	<b>KL 10 : Amartya Mukhopadhyay, IIT Bombay</b>	

	<b>IT 06 :</b> Dr. S.C. Vanithakumari, IGCAR	<b>IT 08 :</b> Dr. J. Mary Gladis, IIIST	<b>IT 12:</b> Dr. Ravi Kumar Arun, IIT Jammu
	<b>IT 07 :</b> Dr Meenu Srivastava, CSIR-NAL	<b>IT 09:</b> Dr. Sachindranath Das, Jadhavpur Univ.	<b>IT 13:</b> Prof. T. M. Sridhar, University of Madras
	OP 67: N. T. Manikandanath, NAL	<b>IT 10:</b> Dr. Kuldeep Singh Kakran, CSIR-CECRI	<b>IT 14:</b> Dr. Anwasha Mukherjee, IGCAR
	OP 68: Sunil Ugadi, IIT Madras		OP 77: Antra, NPL
	OP 69: Anuj Awasthi, MTX Labs		OP 78: Kalyani, Guru Ghasidas Vishwavidyalaya, Bilaspur
			OP 79; Pappu Shriwas, Guru Ghasidas Vishwavidyalaya, Bilaspur
			OP 80: Preethi Muruganandam, NIT Tiruchirappalli
<b>16.00 – 17:30</b>	<b>Tea Break and Poster Session (PP36-PP70)</b>		

Day 3

20-09-2024

Friday

Technical Sessions 10 - 12			
9.00 – 10.30	<b>Parallel Session 10: Hall A</b> <b>Analytical Electrochemistry:</b> <b>Sensors</b>	<b>Parallel Session 11: Hall B</b> <b>Electrochemical energy systems</b>	<b>Parallel Session 12: Hall C</b> <b>Electrocatalysis &amp; Corrosion</b>
	<b>KL 11:</b> Prof. S. A. Hashmi, Delhi University	<b>KL 13:</b> Dr. K. Ramya, ARCI	<b>IT 20:</b> Dr. Gopinath Shit, IGCAR
	<b>KL 12:</b> Prof. Sanket Goel, BITS Pilani	<b>KL 14:</b> Dr. Tharamani, IIT Ropar	<b>IT 21:</b> Dr. Rajini P. Antony, BARC, Kalpakkam
	<b>IT 15:</b> Dr. Parveen Kumar Janjua, Maharaja Surajmal Brij University	<b>IT 19:</b> Dr. Mamata Mohapatra, CSIR-IMMT	OP 81 (Electrocatalysis): Sanjit Kumar Parida, IGCAR
		OP 33: Dipannita Saha, IIT Bombay	
		OP 34: Himanshu Chauhan, IIT Roorkee	
		OP 35: J.P. Tiwari, CSIR-NPL	
		OP 36: Sukhjit, IIT Ropar	
	<b>IT 16 :</b> Dr. Utkarsh Jain, SoHST	OP 37: Jenish Mugilan, VIT	<b>OP 82 (Electrocatalysis):</b> Mohammad Imran Hossain, Shahjalal University of Science and Technology, Bangladesh
	<b>IT 17:</b> Dr. Chaitanya Lekshmi, Plaksha University	OP 38: Jitendra Kumar Yadav, IIT Jodhpur	
	<b>IT: 18: Dr.Pankaj Suman, NIAB</b>	OP 39: Mamta, BINA, Israel	OP 83 (Electrocatalysis); Pooja Devi, Punjab University, Chandigarh
	OP 14: A. Kushwaha, Central University of Gujarat	OP 40: Soham Sinkar, COEP Technological University	OP 95 (Corrosion): Ramay Patra, ARCI
	OP 15: Bitupan Prasad, Rajiv Gandhi University, Arunachal Pradesh	OP 41: Shobhita Singal, DU	OP 96: K.R.C. Soma Raju ARCI
	OP 16: Daphika S Dkhar, IIT BHU	OP 42: Shivangi Mehta, IIT Ropar	OP: 97: Ajay, IITB
	OP 17; Deepali Chaudhary, Maharishi Markandeshwar Engineering College	OP 43: Shafali Thakur, IIT Jammu	
	OP 18: Indrani Nandi, IIT BHU	OP 44: Dharmadhikari, GGU , Bilaspur	
	OP 19: Surbhi Sharma, Maharishi Markandeshwar Engineering College		
10.30 – 10:45	<b>Tea Break</b>		
	<b>Technical Sessions 13 - 15</b>		

10:45 – 13:30	Parallel Session 13: Hall A Electrocatalysis	Parallel Session 14: Hall B Electrochemical energy systems	Parallel Session 15: Hall C Corrosion
	<b>IT 22:</b> Prof. Koyel Banerjee Ghosh, IIT, Hyderabad	<b>IT 25:</b> Dr. Surender Kumar, AMPRI, Bhopal	<b>KL 15:</b> Dr. R. Subhasri, ARCI, Hyderabad
	<b>IT 23:</b> Prof. Alex Joseph, Newman College Thodupuzha	<b>IT 26:</b> Dr Ambesh Dixit, IIT Jodhpur	<b>IT 27:</b> Dr. Milind V. Kulkarni, CMET
	<b>IT 24:</b> Uday Pratap Azad, Guru Ghasidas Vishwavidyalaya OP 84: Pankaj Kumar Singh, IIT Mandi	OP 45: Renisha Esther Sasikumar, NIT, Tiruchirappalli	<b>IT 28:</b> Dr. Asit Patra, CSIR-NPL
	OP 85: Manivannan Mahendran, CECRI	OP 46: Manoj Goswami, AMPRI	OP 98: S. C. Bali, UNO MINDA LTD.
	OP 86: Ritu, DU	OP 47: Kalpana Garg, IIT Ropar	OP 99: Veena Subramanian, BARC, Kalpakkam
	OP 87: Surajit Samui, INST	OP 48: Darshna, Sardar Patel University	OP 100: J. S. John Tizzile, CECRI
	OP 88: Rohit Kumar Gupta, IIT BHU	OP 49: Mohana, IIT Madras	OP 101: S S. Abirami, CECRI
	OP 89: Himanshi, IISER Mohali	OP 50: Sakshee Chandel	OP 102: Ravi Saini, IITP
	OP 90: Urwashi Gupta, IIT BHU	OP 51: Sivam,	OP 103: S. Manju Bharathi, Anna University
	OP 91: Priya Pathmanathan, Mahindra University	OP 52: Indra	OP 104: P. Cheranmadevi, Anna University
	OP 92: P Babu, Mahindra University, Hyderabad	OP 53: Pooja Rani	OP 105: D. Nalini, PSGR Krishnammal College for Women
	OP 93: Uday Pratap Azad, Mahindra University	OP 54: Pavithra	OP 106: Srishti Bhatt, UNO MINDA LTD
	OP 94: Bipul Kumar Pradhan	OP 55: Apurba Borah	OP 75: Suchitra, IITM
		OP 56: M. Singh	
		OP 57: Adrija Goswami, IITB	
		OP 58: N. Singh	
		OP 59: P. Soni	
		OP 60: Anjaiah Sheelam	
		OP 61: Priya	
<b>13.30 - 14.15</b>	<b>LUNCH BREAK</b>		
<b>14.15 – 15.15</b>	<b>Poster Session (PP71-PP96)</b>		
<b>15:15 – 15:30</b>	<b>Tea Break</b>		
<b>15.30 - 16.30</b>	<b>VALEDICTORY FUNCTION</b>		

**Note:** Plenary Lecture (40 min); KL: Keynote Lecture (20 min); IT: Invited Talk (15 min); OP: Oral Presentation (10 min)

Total - Plenary Lecture:                      Keynote lectures:                      Invited Lectures:                      Oral presentations