



ICWEC – 2023

**INTERNATIONAL CONFERENCE ON WOMEN IN ELECTROCHEMISTRY**

*Unleashing the potential of women in electrochemistry*

April 07-08, 2023

**Technical Programme**

Venue: **Satish Dhawan Auditorium, IISc-Campus, Bengaluru**



ECSI, Bengaluru, April, 7-8, 2023

**Day 1 (07.04.2023): Friday**

08.30-09.30: **REGISTRATION**

09.30-10.30: **INAUGURATION**

**PROGRAMME**

**Invocation**

**Welcome Address**

**About ECSI, Bengaluru**

**About ICWEC 2023**

**Lighting of the Lamp**

**Inaugural Address**

**Dr. S T Aruna, President, ECSI**

**Dr. Chaitanya Lekshmi, Convener, ICWEC-2023**

**Prof. Alka Sharma, Convener, ICWEC-2023**

**Dr. (Mrs.) N. Kalaiselvi**

Director General, CSIR & Secretary DSIR

Council of Scientific & Industrial Research (CSIR)

New Delhi, India.

**Release of Souvenir & Compendium**

**Address by the Guest of honor**

**Dr. Suman Kumari Mishra, Director, CSIR-CGCRI**

**Vote of Thanks**

**Dr. Prathibha B S, Hon. General Secretary, ECSI**

**Group Photo**

**Inauguration of Poster and Exhibition**

**10.30-11.00: TEA**

## Day 1: Friday (Technical Sessions)

Time, 24 Hrs	Event Sessions	Details		
11.00 -13:30	Plenary & Keynote lectures	<b>Plenary Lecture 01:</b> Dr. Suman Kumari Mishra, Director, CSIR-Central Glass and Ceramic Research Institute. <i>“Development of advanced wear &amp; corrosion resistant and functional coatings: A few solutions for industry application”</i>		
		<b>Keynote Lecture 01:</b> Ms. Swati Meherishi, Editorial Director-Applied Science and Engineering, Springer. <i>“Scientific Writing and Publishing”</i>		
		<b>Keynote Lecture 02:</b> Dr. (Mrs.) Geogy J. Abraham, BARC, Mumbai. <i>“Effect of Cold working and surface finishing on corrosion resistance of Alloy 800 at room temperature”</i>		
		<b>Keynote Lecture 03:</b> Dr.R. Subasri, ARCI, Hyderabad. <i>“Nanocontainer-based smart coatings for prolonged corrosion inhibition”</i>		
		<b>Keynote Lecture 04:</b> Geetha Manivasagam, VIT, TN. <i>“Corrosion of metallic biomaterials - boon or curse”</i>		
13.30 – 14.30		<b>LUNCH</b>		
	Technical Sessions: 1- 3	<b>Parallel Session 1: Hall A Analytical Electrochemistry: Sensors</b>	<b>Parallel Session 2: Hall B Electrochemical energy systems: Batteries</b>	<b>Parallel Session 3: Hall C Electrochemical energy systems: Supercapacitors</b>
14.30 – 17.30		<b>IT 01:</b> Dr. Sonu Gandhi, NIAB, Hyderabad.  “Highly sensitive detection of secretory non-Structural 1 protein: A potential diagnostic biomarker for Japanese encephalitis virus”	<b>IT 04:</b> Dr. B V Sarada, ARCI, Hyderabad.  “Electrochemical Synthesis of Nanostructured Materials for Energy and Healthcare”	<b>IT 06:</b> Dr. Ritu Gupta, IIT Jodhpur  “Nanostructured Electrodes for Electrochemical Energy and Sensing Applications”
		<b>IT 02:</b> Dr. Chirashree Roy, IEST, Shibpu  “Electrical Biosensors Operating in Complex Biological Fluids”	<b>OP 34 – OP 51 (Batteries)</b>	<b>OP 68 – OP 82 (Supercapacitors)</b>
		<b>IT 03:</b> Dr. Aarti S.Bhatt, NITTE (DU)  “Electrochemistry for food safety”	<b>IT 05:</b> Dr. Rizzato Silvia, Università Degli Studi, Di Milano, Italy.  “Advances in biosensing: electrochemistry, impedance spectroscopy and beyond”	<b>IT 07:</b> Dr. Anna Grazia Monteduro, University of Salento, Italy.  “Advances in drug screening by lab on chip and organ on chip technologies”
		<b>OP 01 – OP 14 (Sensors)</b>		
16.30 – 17.30		Poster Session [PP: 01 – 46]		
19.00 - 20.00		Cultural Programme		
20.00 - 21.00		<b>Dinner</b>		

## Day 2 (08.04.2023): Saturday

9.00-10.30	Plenary & Keynote Session	<p><b>Plenary Lecture 02:</b> Dr. Veronique Vitry: Associate professor, UMONS, Mons, Belgium.  <i>“Making electroless nickel-boron coatings more sustainable and stronger”</i></p> <p><b>Keynote Lecture 05:</b> Dr. Shalini Prasad: University of Texas, Dallas  <i>“The opportunity to track infections and inflammation in real time from sweat using the sweat sensor platform technology”</i></p> <p><b>Keynote lecture 06:</b> Ms. Suchismita Sanyal: General Manager, Shell Technology Centre, Bangalore.  <i>“Role of Computations, Data and AI in Materials Design for electrochemistry and energy transition: An Industry Perspective”</i></p>		
10.30 - 11.00	<b>High Tea</b>			
11.00 – 13.30	Keynote & Technical Session 4 - 6	<b>Parallel Session 4: Hall A</b> <b>Electrochemical energy systems: Fuel Cells</b>	<b>Parallel Session 5: Hall B</b> <b>Analytical Electrochemistry: Corrosion &amp; Waste water treatment</b>	<b>Parallel Session 6: Hall C</b> <b>Electrochemical energy systems: Supercapacitors &amp; Green energy</b>
		<p><b>Keynote 07:</b> Dr. P. Sujathadevi, CSIR-NIIST, Trivandrum</p> <p>“Role of Functional Materials in Energy Conversion: Looking Back at Decades of Development”</p>	<p><b>IT 09:</b> Dr. Debdyuti Mukherjee, ARCI, Chennai</p> <p>“Designing Next Generation Sustainable Energy Conversion and Storage Systems Using Two-Dimensional Layered Materials and Highly Conducting Ionomer Membranes”</p>	<p><b>IT 11:</b> Prof. Mary Gladis J, IISST, Trivandrum</p> <p>“Functionalised carbon materials for advanced electrochemical energy storage devices”</p>
		<p><b>IT 08:</b> Dr. Archana, CSIR - AMPRI Bhopal</p> <p>“Electrocatalyst for Water Oxidation Reaction”</p>	<p><b>IT 10:</b> Dr. SC Vanitha Kumari, IGCAR, Kalpakkam</p> <p>“Nature Inspired Surface Modification of Materials for Corrosion Mitigation – Challenges and Way Forward”</p>	<p><b>IT 12:</b> Dr. Srabanti Ghosh, CSIR – CGRI, Kolkata</p> <p>“Electrochemistry of Nanostructured Materials: Implementation in Energy Conversion Applications”</p>
		<b>OP 52 – OP 59 (Fuel cells)</b>	<b>OP 15 – OP 23 (Corrosion &amp; waste water treatment)</b>	<b>OP 83 – OP 90 (Supercapacitors)</b>
13.30 - 14.30	<b>LUNCH</b>			

14.30 – 17.30	Keynote & Technical Session 4, 5, 6.	Parallel Session 4: Hall A <b>Electrochemical energy systems: Fuel Cells</b>	Parallel Session 5: Hall B <b>Corrosion, Waste water treatment &amp; Surface engineering</b>	Parallel Session 6: Hall C <b>Supercapacitors, Green energy &amp; Fundamental Electrochemistry</b>
		<b>Keynote 08:</b> Prof. Tharamani, IIT Ropar “Hydrogen production: H <sub>2</sub> O vs H <sub>2</sub> S electrolysis-better for tomorrow?”.	<b>Keynote 09:</b> Dr. V. Saraswathy, CSIR-CECRI “Corrosion Assessment and Control of Important Infrastructures through Suitable Mitigation Methodologies”.	<b>OP 91 – OP 93 (Supercapacitors)</b>
		<b>IT 13:</b> Dr. Mamata Mohapatra, CSIR-IMMT “New dimension to design sulphide material for hybrid energy storage system”	<b>OP 24 – OP 33 (Corrosion &amp; Waste water treatment)</b>	<b>OP 94 – OP 102 (Green energy)</b>
	<b>OP 60 – OP 67 (Fuel cells)</b>	<b>OP 107 – 119 (Surface Engineering)</b>	<b>OP 103 – OP 106 (Fundamental Electrochemistry)</b>	
16.00 - 17.00	TEA & Poster Session [PP 47 – 93]			
17.30 - 18.30	VALEDICTORY FUNCTION			

**Note:** Plenary Lecture (40 min); KL: Keynote Lecture (30 min); IT: Invited Talk (20 min); OP: Oral Presentation (10 min)  
Total - Plenary Lecture: 02; Keynote lectures: 09; Invited Lectures: 13; Oral presentations: 119.