

Society for Advancement of Electrochemical Science and Technology (SAEST)

Twenty First

## National Convention of Electrochemists (NCE-21)

30-31 January 2020

Vellore Institute of Technology (VIT), Chennai

## TECHNICAL PROGRAMME

DAY-1 ... 30 January 2020 (Thursday)

Venue: Nethaji Auditorium (Academic Block – 1; 7<sup>th</sup> floor)

08.30 - 09.30	Registration			
09.30 - 10.15	Inauguration			
10.15 - 11.00	Prof. S. K. Rangarajan Memorial Lecture			
	Two Avatars of Anomalous Diffusion			
	Prof. K.L. Sebastian, Indian Institute of Technology, Palakkad			
11.00 - 11.15	Tea Break			
11.15 - 12.00	Prof. S. Sathyanarayana Memorial Lecture			
	Energy Storage and e-Mobility Opportunities in India in 21st Century			
	Dr. N. Sugumaran, International Battery Consultant, Coimbatore			
12.00 - 12.30	Invited Lecture 1 (IL-1)			
	Electrocatalysis and In-situ Techniques			
	Prof. S. Sampath, Indian Institute of Science, Bangalore			
12.30 - 13.00	Invited Lecture 2 (IL-2)			
	Oxygen Electrocatalysis: Principles and Practice(Towards Rechargeable Metal-Air Batteries)			
	Prof. C. R. Raj,Indian Institute of Technology, Kharagpur			
13.00 - 14.00	LunchBreak			
14.00 - 14.30	Invited Lecture 3 (IL-3)			
	Numerical Modeling of Electrochemical Process and its Application Towards Designing of an			
	Engineering Scale Electrorefiner for Pyrochemical Reprocessing			
	Dr. Sourabh Agarwal, Indira Gandhi Centre for Atomic Research, Kalpakkam			
14.30 - 15.00	Invited Lecture 4 (IL-4)			
	Design & Fabrication of Indigenous Aerogel Supercapacitor Module for Specific Power Electronic			
	Applications			
	Dr. N.C. Pramanik, C-MET, Thrissur			
15.00 - 16.00	Nethaji Auditorium Room No. 701 (7 <sup>th</sup> floor)			
	Oral Presentations ( <b>OP-17 to OP-21</b> ) Oral Presentations ( <b>OP-01 to OP-08</b> )			
16.00 - 17.00	Tea Break / Poster Presentation 1 (PP 01 to PP 75)			
17.00 - 17.30	Invited Lecture 5 (IL-5)			
	Synthesis of Nanostructured Materials and Thin-films by Pulse Electrodeposition for Energy			
	Conversion and Storage Applications			
	Dr. B. V. Sarada, International Advanced Research Centre for Powder Metallurgy and New			
	Materials (ARCI), Hyderabad			
17.30 - 18.00	Invited Lecture 6 (IL-6)			
	Overview of Stabilized Landfill Leachate Treatment by Advanced Oxidation Process Using			
	Heterogeneous Catalyst			
	Dr. R. Gandhimathi, National Institute of Technology, Tiruchirappalli			
18.00 - 19.00	Nethaji Auditorium Room No. 701 (7 <sup>th</sup> floor)			
	Oral Presentations ( <b>OP-22 to OP-27</b> ) Oral Presentations ( <b>OP-09 to OP-16</b> )			
19.00 - 20.00	Cultural Programme			
20.00	Dinner			

SAEST		NCE-2
DAY-2	31 January 2020 (Friday)	
Venue:	Nethaji Auditorium (Academic Block – 1; 7 <sup>th</sup> floor)	

09.00 - 10.00		oom No. 701 (7 <sup>th</sup> floor)	
	Oral Presentations (OP-28 to OP-33) O	ral Presentations (OP-34 to OP-40)	
10.00 - 10.45	Prof. K. S. G. Doss Memorial Lecture		
	Stimuli Responsive Soft Materials		
	Dr. A. Ajayaghosh, CSIR – National Institute for Interdisciplinary Science and Technology		
	(NIIST), Thiruvananthapuram		
10.45 - 11.00	Tea Break		
11.00 - 11.30	Invited Lecture 7 (IL-7)		
	Analysis of Electron Transfer Processes at Electrochemical Interfaces - An Unified Perspective		
	Prof. M.V. Sangaranarayanan, Indian Institute of Technology Madras, Chennai		
11.30 - 12.00	Invited Lecture 8 (IL-8)		
	Battery Technology: Trends and Challenges		
	Dr. N. S. Raman, Indian Oil Corporation Limited, Farid	labad	
12.00 - 12.30	Invited Lecture 9 (IL-9)		
	Novel Corrosion Assessment Tool and Metallic Nanowi	re Synthesis using Electrochemical	
	Principles		
	Prof. Lakshman Neelakantan, Indian Institute of Techno	logy, Chennai	
12.30 - 13.00	Invited Lecture 10 (IL-10)		
	Electrochemistry Benefitting Society: Research Investig	ations into PEM Fuel Cell Cathode to	
	Enhance Fuel Cell Life		
	Dr. K. Chockkalingam, Vetri Labs, Electrochemical Res	earch, Consulting & Testing Services, USA	
13.00 - 13.30	Lunch Break		
13.30 - 14.30	Poster Presentation 2(PP-76 to PP-151)		
14.30 - 15.00	Invited Lecture 11 (IL-11)		
	Hydrogen and Fuel Cell Technology Development Program	ram at ARCI-CFCT and	
	the Way Forward for Green Energy Sector Applications		
	Dr. R. Balaji, Centre for Fuel Cell Technology (CFCT),	Chennai	
15.00 - 15.30	Invited Lecture 12 (IL-12)		
	Recent Advances in Catalysts Development for Fuel Cel	ls and Water Electrolysis	
	Dr. Sangaraju Shanmugam, Daegu Gyeongbuk Institute	of Science and Technology (DGIST),	
	South Korea		
15.30 - 16.00	Invited Lecture 13 (IL-13)		
	Designing Task Specific Ionic Liquids for Effectual Electronic	ctrochemical Sensing	
	Dr. S. Senthil Kumar, Vellore Institute of Technology, V	ellore	
16.00 - 16.30	Felicitation by lead sponsors		
16.30 - 17.00	Tea Break		
17.00 - 18.00	Valedictory Function		

