



## Organized jointly with

# 4<sup>TH</sup> INTERNATIONAL DAYALBAGH SCIENCE OF CONSCIOUSNESS CONFERENCE Bridging the Gap

#### 26 September – 30 September 2022

## **Revised Program Schedule**

	DAY – 1 (Monday, 26 September 2022) Venue: DEI Multimedia Lab		
Time (IST)	Session Title and Chair(s)	Session Details	
12:40 PM – 12:45 PM	Opening Session	Introduction to the conference and opening remarks	

	DAY – 2 (Tuesday, 27 September 2022) Venue: DEI Multimedia Lab		
Time (IST)	Session Title and Chair(s)	Session Details	
	07:00 AM – 08:00 AM – Oral Presentations Session 1 Consciousness based and Literary Systems Chairs: Dr. Nirat Ray Dr. N Apurva Ratan Murty	<ol> <li>Dystopian fascism to spiritual utopianism: a systemic study of the contrasting worlds of Golding's lord of the flies and the garden of the merciful by Gur Pyari Jandial.</li> </ol>	
		2. Empirical measurement of aesthetic experience of music by Abhishek Gupta and CM Markan.	
07:00 AM – 08:00 AM		3. Analyzing functional brain networks of ultra- transcendental meditation using graph theoretic approach by <b>Geeta Prem Chandoo</b> <b>Damisetti and CM Markan.</b>	
		4. An ERP investigation of impact of brief mindfulness intervention on attentional systems by <b>Manvi Jain, Dushyant Soni and CM Markan.</b>	
		<ol> <li>Quantum Zeno effect in bistable perception by Mansi Tarani and CM Markan.</li> </ol>	
		6. Computational correlation analysis of synaptotagmin gene 1 in human with different life forms by <b>Hunny Waswani and Rajiv Ranjan.</b>	



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Time (IST)	Session Title and Chair(s)	Session Details
	<b>Oral Presentations Session 2</b> <b>Energy Systems</b> Chairs: Dr. Sonal Sahai Dr. Aatmesh Shrivastava	<ol> <li>An experimentation of magnetic field assisted smart nano fluids on electric vehicle (ev) for increasing the efficiency of battery by Amit Yadav, Sandeep Kumar and Neelam Srivastava.</li> </ol>
		2. Role of thermal annealing in fabrication of bismuth ferrite thin films for photoelectrochemical water splitting by <b>Bhanupriya</b> , <b>Kumari Ruchi</b> , <b>Runjhun Dutta</b> , <b>Anuradha Verma</b> , <b>Anupam</b> <b>Srivastava</b> , <b>Manju Srivastava and Rohit</b> <b>Shrivastav</b> .
01:00 PM –		3. Is green building a better option for future? a sustainability assessment by <b>Shubhi Sharma and Aparna Satsangi.</b>
02:00 PM		4. Comparative study: green pretreatment of rice straw for biofuel production by <b>Saurabh Kumar</b> , <b>Gunjan</b> , Jyoti Kushwaha, Yogita Jain and Radhika Singh.
		<ol> <li>Review of factors affecting cooling performance of battery thermal management system by Devansh Saraswat, Devanshu Lawania and Rajesh Kumar.</li> </ol>
		<ol> <li>Bismuth ferrite (bifeo3): a promising material for renewable hydrogen generation by photoelectrochemical splitting of water by Arpan Agarwal, Anuradha Verma, Anupam Srivastav, Manju Srivastava and Rohit Shrivastav.</li> </ol>





Time (IST)	Session Title and Chair(s)	Session Details
	Oral Presentations Session 3 Agroecology Systems Chairs: Prof. GP Satsangi Dr. Bhupinder Singh	1. Simulation of water and nutrient distribution in raised bed onion under different soil types, emitter discharge rates and irrigation intervals by <b>Anjitha</b> <b>Krishna PR, Maheshwara Babu B, Anilkumar</b> <b>T Dandekar, Rajkumar RH, Ramesh G and</b> <b>Balanagoudar SR.</b>
		2. Homo sapiens to Homo Environmentalis through lacto-vegetarianism by <b>Saran Lakhani.</b>
02:15 PM – 03:15 PM		3. Interpretive structural model of challenges in processing the potato by small and medium enterprises by <b>Jaspreet Kaur.</b>
		4. A study of food preferences and sustainable habits among lacto-vegetarians, vegetarians, and non- vegetarians by <b>Sona Dixit, Rajat Mittal and</b> <b>Simran Dixit.</b>
		5. Manufacture of whey-based mint buttermilk made from different sources and their comparative study by <b>Nandini Singh, Ajay Kushwah and Mogla</b> <b>Achal Maharaj Kishore.</b>
		6. Design and analysis of solar based water pumping system for agricultural purpose using MATLAB/Simulink by <b>Piyush Kudiwal, Lokesh</b> <b>Sharma and Subho Upadhyay.</b>





	DAY – 3 (Wednesday, 28 September 2022) Venue: DEI Multimedia Lab		
Time (IST)	Session Title and Chair(s)	Session Details	
	2 <b>Oral Presentations Session 4</b> <b>Environment Systems</b> Chairs: Prof. Rohit Srivastava Dr. Raj Kamal Bhatnagar 5	<ol> <li>Distribution based bias correction of cmip5 gcms outputs for climate impact modeling by Madhuri Dubey, Ashok Mishra and Rajendra Singh.</li> </ol>	
		<ol> <li>Investigating features of air showers at Agra using DEASA experiment by Sonali Bhatnagar and Kajal Garg.</li> </ol>	
		3. Effect of improved air quality in lockdown period on solar photovoltaic generation by <b>Akanksha</b> <b>Singh, Ankit Premi and Gaurav Pratap Rana.</b>	
07:00 AM – 08:00 AM		4. Water quality assessment of water released from air conditioner by Archita Dixit, Santendra Kumar Soni and Jeetendra Singh.	
		5. Comparative analysis of air quality over the Indo Gangetic plain (IGP) in the era of covid-19: normal to the new normal by Isha Goyal, Muskan Agarwal, Simran Bamola and Anita Lakhani.	
		6. Insights into the lacto-vegetarian Indian diets-a case study on nutritional status of children in western Europe by <b>Raghuram Gudipati, Simran</b> <b>Roy Mehta, Sangeeta Bhushan, Ratnanjali</b> <b>Gupta, Jyoti Nayak and Surendra Singh.</b>	



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Time (IST)	Session Title and Chair(s)	Session Details
Time (IST)	Oral Presentations Session 5	<ol> <li>Session Details</li> <li>Pain-free low-power and deep pacing of human heart with light by Gur Pyari, Himanshu Bansal and Sukhdev Roy</li> <li>Novel method for low-power high-fidelity and sustained control of neural spiking with light by Himanshu Bansal, Gur Pyari and Sukhdev Roy.</li> <li>Prosthetics advice, design &amp; fabrication using digital manufacturing systems for improved healthcare systems by Guru Ratan Satsangee, Bobby Tyagi, Dheeraj Kumar Angajala, Ankit Sahai and Rahul Swarup Sharma.</li> </ol>
08:15 AM – 09:15 AM		<ol> <li>Task-specific regularization loss towards model calibration for reliable lung cancer detection by Mehar Prateek Kalra, Mansi Singhal and Rohan Raju Dhanakshiriur.</li> </ol>
		5. A cross-sectional analysis of the factors affecting consumers' decision to buy wearable activity trackers: a case study of the university students in Punjab by Narinder Kumar, Dhiresh Kulshrestha, Abhishek Anand and Rishu Kumar.
		<ol> <li>An analysis and deployment of deep neural networks for medical applications by Soniya, Aarat Prasad Chopra, Lotika Singh and Sandeep Paul.</li> </ol>

DAY – 3 Continued (Wednesday, 28 September 2022) Venue: DEI Seminar Hall Complex		
Time (IST)	Session Title and Chair(s)	Session Details
	<b>Poster Presentations Session</b>	
12:30 PM –	Chairs: Dr. SK Soni	41 Posters shortlisted for presentation
02:00 PM	Prof. Sona Ahuja	( <i>with DSC 2022</i> )
	Prof. Pravin Saxena	



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	Venue: DEI Multimedia Lab		
Time (IST)	Session Title and Chair(s)	Session Details	
02:15 PM – 03:15 PM	Oral Presentations Session 6 Information and Communication Systems Chairs: Prof. Kamal Srivastava Prof. GS Sailesh Babu	<ol> <li>Optimization of gravity-fed water distribution network design using genetic algorithm and particle swarm optimization by <b>Pradyuman</b> <b>Verma and DK Chaturvedi</b></li> <li>Femtosecond all-optical logic gates with mote2 nanocomposite thin films by <b>Anam</b> <b>Saifi and Sukhdev Roy.</b></li> <li>The role of learning agility, enculturation, and</li> </ol>	
		motivation in entrepreneurial intentions – a systems modeling perspective by <b>Ruchika Vatsa</b> and Purnima Bhatnagar.	
		4. Explainable artificial neural network using evolutionary fuzzy association rule mining by <b>Abhishek Toofani, Sandeep Paul and Lotika</b> <b>Singh.</b>	
		5. Technology-based virtual intervention to improve social well-being: a case study of the members of the Radhasoami Satsang community in the Europe region by <b>Ami Parashar and Satyam Sharan</b> .	
		6. Productivity and plant capacity improvement of the automobile industry using different soft computing technologies by <b>Mayank Kumar</b> <b>Agrawal, Ravi Shankar, Ashok Yadav and</b> <b>Rishabh Singhal.</b>	
08:20 PM – 09:00 PM	Presentation of Awards	Best Paper and Best Poster Award ( <i>with DSC 2022</i> ) SSI Awards	



02:00 PM



DAY – 4 (Thursday, 29 September 2022)			
Venue:	Venue: DEI Multimedia Lab / Dayalbagh Agroecology-cum-Precision Farming Fields		
Time (IST)	Session Title and Chair(s)	Session Details	
04:30 AM – 05:15 AM	<b>Plenary Session 1</b> ( <b>Virtuous Virtual Mode</b> ) Chair: Prof. Sukhdev Roy	Seeking transformation: a praxis for using and institutionalizing systems thinking in practice (STiP) in policy settings <b>Prof. Ray Ison</b> President International Federation for Systems Research	
	Plenary Session 2	Sustainability in Launch Vehicle Program	
08:00 AM -	(Virtuous Virtual Mode)	Dr. S Unnikrishnan Nair	
08:45 AM	Chair:	Director	
	Dr. Dayal Pyari Srivastava	Vikram Sarabhai Space Centre	
09:00 AM – 09:45 AM	Plenary Session 3 (Virtuous Virtual Mode) Chair: Dr. Bani Dayal Dhir	Are we ready to feed nine billion? <b>Prof. Ashwani Pareek</b> Executive Director National Agri-Food Biotechnology Institute	

DAY – 4 Continued (Thursday, 29 September 2022)			
Venue:	Venue: DEI Multimedia Lab / Dayalbagh Agroecology-cum-Precision Farming Fields		
Time (IST)	Session Title and Chair(s)	Session Details	
		Prof. VB Gupta (Moderator)	
		Dayalbagh Educational Institute	
		Prof. Prem Kumar Kalra	
		Dayalbagh Educational Institute	
		Prof. Geoff Simm	
04:45 PM –	<b>Panel Discussion</b>	The University of Edinburgh	
05:45 PM	(with DSC 2022)	Prof. Ray Ison	
		The Open University	
		Prof. Ashwani Pareek	
		National Agri-Food Biotechnology Institute	
		Prof. Kalyanmoy Deb	
		Michigan State University	
6:30 PM –	<b>Farewell and Cultural</b>	Cultural programme presented by students of DEI.	
07:45 PM	<b>Programme</b> ( <i>with DSC 2022</i> )	Cultural programme presented by students of DEI.	
	DAY – 5 (Friday, 30 September 2022)		
Venue: DEI Multimedia Lab			
Time (IST)	Session Title and Chair(s)	Session Details	
01:00 PM -	SSLACM	Annual Conoral Mosting of Systems Society of India	
02:00 PM	SSI AGM	Annual General Meeting of Systems Society of India.	