





# 3<sup>rd</sup> ICG-CGCRI Tutorial

## Venue: A.P.C. Roy Seminar Hall, CSIR-CGCRI, Kolkata, India January 17-19, 2025

### Program

Day1 : Friday (January 17)							
Time (h)	Event	Speakers	Lectures				
08:45	Registration at A.P.C. Roy Seminar Hall (1 <sup>st</sup> Floor)						
09:30-10:10	Inauguration						
09:30-09:35	Invocation and Lighting of the lamp						
09:35-09:45	Welcome Address by Dr. Sitendu Mandal, President, ICG-2025 & Chief Scientist, CSIR-CGCRI						
09:45-09:55	Introductory remarks by Prof. Reinhard Conradt, Immediate Past President, International Commission on Glass						
09:55-10:05	Speech by Prof. Ana Rodrigues, Chair, ICG Technical Committee, TC23: Education, Training in Glass Science & Eng.						
10:05-10:10		Vote of Thanks by Dr. K. Annapurna, Ch	air, 3 <sup>rd</sup> ICG-CGCRI Tutorial				
10:10-10.:55	Lecture 1	Prof. J. M. Parker	Transport properties of Glass				
10.55 11.15	University of Sheffield, UK						
10:00-11:10	Looturo 0	Brof Deinhard Conredt	Thermodynamics and Chemical Structure of Ovide				
11:15-12:00	Lecture 2	PIOL Reinnard Conradi					
12.00 12.45	Locture 3	Prof   M Parker	Glasses				
12.00-12.45	Lecture 5	PIOL J. W. Palker	Colour and redox processes				
12:45-13:30	Lunch (Packed Lunch/Sandwiches)						
13:30-15:00	Introduction of Students (one slide per student for 2 min)						
15:00-15:45	Lecture 4	Prof. Reinhard Conradt	The Batch-to-Melt Conversion in Industrial Glass Making				
15:45-16:30	Lecture 5	Prof. Anoop Krishnan	Machine Learning for Glass Science-I				
		Indian Institute of Technology,					
40.00.40.45		Delhi, India					
16:30-16:45		Tea/Coffee					
16:45-17:30	Lecture b	Prot. Anoop Krishnan	Machine Learning for Glass Science-II				
17:30-18:15	Lecture 7	Prof. Aswini Ghosh	Transport and Relaxation of Charge Carriers in				
		Indian Association for the Cultivation of	conducting glass				
		Science,					
		Jadavpur, Kolkata, India					
18:15-19:00	Lecture 8	Dr. C. Venkateswaran	The Transformative Power of a Magical Material: Glass				
		vikiam Sarabhai Space Centre (VSSC), Thiruvapanthapuram Kerala India					
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Day2 : Saturday (January 18)						
Time	Event	Speakers	Lectures			
09:30-10:15	Lecture 9	Mr. Stuart Hakes F.I.C. (UK) Limited, Cornwall, United Kingdom.	Electric Boosting- How to operate and maintain-I			
10:15-11:00	Lecture 10	<b>Prof. Leena Hupa</b> Åbo Akademi University Turku/Åbo, Finland	Manufacturing products of melt-derived bioactive glass vs. melt crystallization-I			
11:00-11:30	Tea/Coffee					
11:30-12:15	Lecture 11	Mr. Stuart Hakes	Electric Boosting- How to operate and maintain-II			
12:15-13:00	Lecture 12	Prof. Leena Hupa	Manufacturing products of melt-derived bioactive glass vs. melt crystallization-II			
13:00-13:30		Lunch (Packed Lunch/Sandwiches)				
13:30-14:30		Interaction of students				
14:30-15:15	Lecture 13	Prof. Edgar Zanotto Federal University of São Carlos, Brazil	Nucleation and crystallization of supercooled liquids and glasses -I			
15:15-16:00	Lecture 14	<b>Prof. Ana Rodrigues</b> Federal University of São Carlos São Carlos, Brazil	Electrical properties: fundamentals			
16:00-16:15		Tea/Coffee				
16:15-17:00	Lecture 15	Prof. Edgar Zanotto	Nucleation and crystallization of supercooled liquids and glasses -II			
17:00-17:45	Lecture 16	Prof. Ana Rodrigues	Electrical properties: characterization and application			
17:45-18:30	Lecture 17	Dr. K. Annapurna CSIR-CGCRI, Kolkata, India	Optical and spectral Properties of Glasses			







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Day3 : Sunday (January 19)							
Time	Event	Speakers	Lectures				
09:30-10:15	Lecture 18	Prof. Arun Varshneya President, Society of Glass Technology and Saxon Glass Technologies, NY, USA	Strength and Strengthening of Glass-I				
10:15-11:00	Interactive Session among participants and tutorial speakers						
11:00-11:15	Tea/Coffee						
11:15-12:00	Lecture 19	Prof. Arun Varshneya	Strength and Strengthening of Glass-II				
12:00-13:00	Valedictory Function-Distribution of Certificates						
13:00-14:00	Lunch (K D Sharma Multipurpose Hall)						
14:00-15:30	Youth Outreach Program of ICG (Meet the mentors)						
15:30-17:30	Visit to unique facilities of CSIR-CGCRI 1. Atma Ram Memorial Museum and Archives 2. Specialty Glass Division 3. Fiber Optics and Photonics Division 4. Biomaterials and Medical Devices 5. Energy Materials and Devices Division						