



ONE-DAY WORKSHOP ON “CERAMIC MATERIALS FOR SOLID OXIDE FUEL CELLS”

International Advanced Research Centre for Powder Metallurgy & New Materials (ARCI), an Autonomous R&D Organization of Department of Science & Technology, Government of India, Hyderabad is jointly organizing with Indian Ceramic Society (ICS), Hyderabad Chapter and University of Hyderabad (UoH), a one-day workshop on **Ceramic Materials for Solid Oxide Fuel Cells** as part of **Azadi ka Amrit Mahotsav** Celebrations. The workshop will be held on **October 21, 2021** from **9.15 to 17.45 hrs** through **virtual platform** (for detailed programme please see the overleaf).

The workshop focuses on recent development, challenges and opportunities in the field of SOFC. There will be lectures by the eminent experts in the field from various institutes, R&D organizations and industries within India and overseas. Academicians, Scientists, Research Scholars and Students are encouraged to participate in the workshop through the below link:

Workshop date & Time: **October 21, 2021** & 9.15 to 17.45 hrs

Meeting link:

<https://arci.webex.com/arci/j.php?MTID=m80ad74da2a9591c6a8e08899f1d3283c>

Meeting Number: [2517 904 0853](tel:25179040853)

Password: **1234**



You are requested to share the details of this workshop with your colleagues and students

For queries: events@arci.res.in

Participation is Free

Organizing Committee

One-day Workshop on Ceramic Materials for Solid Oxide Fuel Cells

International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)

Hyderabad, Telangana, India

Detailed programme overleaf



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Workshop date: October 21, 2021

Inaugural Session (09.15 – 09.55 hrs)

09.15 – 09.20	Welcome and Introduction to the workshop	Dr. Roy Johnson, Associate Director, ARCI, Hyderabad
09.20 – 09.25	Address	Dr. T. N. Rao, Director, ARCI, Hyderabad
09.25 – 09.30	Address	Dr. Suman Kumari Mishra, Director, CSIR-CGCRI, Kolkata
09.30 – 09.40	Inaugural Address by Chief Guest	Prof. S. Basu, Director, CSIR-IMMT, Bhubaneswar
09.40 – 09.45	Remarks	President, ICS-Hyderabad Chapter
09.45 – 09.50	Remarks	Prof. Dibakar Das, Dean, SEST, UoH, Hyderabad
09.50 – 09.55	Introduction to the Azadi ka Amrit Mahotsav celebrations at ARCI	Dr. P. K. Jain, Chairman, Azadi ka Amrit Mahotsav celebrations

Technical Sessions (Invited Lectures: 10.00 – 17.45 hrs)

Technical Session – I (SOFC Technology) (10.00 – 12.15 hrs)

Chairman: Dr. Roy Johnson, Associate Director, ARCI, Hyderabad

10.00 – 10.45	Prof. S. Basu, Director, CSIR-IMMT Bhubaneswar	Development of Direct Methane Solid Oxide Fuel Cells
10.45 – 11.30	Mr. Siddharth R. Mayur, MD, h2e, Pune	Solid Oxide Fuel Cell Technology: Indian & Global Scenario
11.30 – 12.15	Dr. R. N. Das & Dr. Purushottam Joshi, Denspower Private Limited, Karnataka	New generation SOFCs

Technical Session – II (Electrolytes: 12.20 – 13.20 hrs)

Chairman: Dr. B. P. Saha, Scientist & Head, CNOC, ARCI, Hyderabad

12.20 – 12.50	Prof. C. C. Chou, NTUST, Taiwan	SOFC electrolyte development at Taiwan
12.50 – 13.20	Dr. A. K. Tyagi, Director, Chemistry Group, BARC, Mumbai	SOFC components and stack development at BARC

Lunch break (13.20 – 14.00 hrs)

Technical Session – III (Electrode Materials: 14.00 – 15.30 hrs)

Chairman: Dr. Y. S. Rao, Scientist & Head, CER, ARCI, Hyderabad

14.00 – 14.30	Dr. L. Besra, CSIR-IMMT, Bhubaneswar	Anode supported SOFC by electrophoretic deposition
14.30 – 15.00	Dr. Jayanta Mukhopadhyay, CSIR-CGCRI, Kolkata	High performance cathode material development
15.00 – 15.30	Dr. K. Suresh Babu, Pondicherry University	Anode materials for the applications in SOFC

Technical Session – IV (Interconnects & Sealants: 15.35 – 16.35 hrs)

Chairman: Abhijit Das Sharma, Senior Principle Scientist, CSIR-CGCRI, Kolkata

15.35 – 16.05	Dr. M. B. Suresh, ARCI, Hyderabad	Role of interconnect in SOFC stack development
16.05 – 16.35	Dr. Amarnath Reddy Allu, CSIR-CGCRI, Kolkata	Glass ceramic sealants for SOFC

Student Session (16.40 – 17.30 hrs)

Chairman: Prof. Dibakar Das, Dean, SEST, UoH, Hyderabad

16.40 – 17.30	Students (10 presentations)	Flash talk
17.35 – 17.40	Concluding Remarks & Vote of thanks	Mr. A. D. Manohar, Secretary, ICS-Hyderabad Chapter

National Anthem