



Clean Energy Materials Innovation Challenge IC 6

21st -22nd February 2019 IIT Delhi, New Delhi







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Organized by







About the Meeting

Proposed thrust of the Meeting

Second International Meeting on Clean Energy Materials Innovation Challenge during February 21st -22nd, 2019 in New Delhi, India, aims to bring together leaders and visionaries from government, scientific community, and the private sector that are looking at the entire value chain in a holistic way and can speak about and debate the development of these complex changes, which are redefining the future of energy worldwide. The 2-days event at New Delhi, India is intended to become a must-attend event for the Energy Experts to identify and pursue RD & D pathways for high performance, low-cost clean energy materials.

Main objective of the Meeting

Building upon the First Clean Energy Materials event at Mexico City during 11–14 September 2017, the present meeting aims to facilitate an informed expert dialogue that assists in bridging the knowledge gaps in key area and also to better understand the linkages of new high performance, low-cost clean energy materials for the energy sector. The meeting will focus on achieving the following objectives:

- Build an improved, shared understanding of the state of technologies for the automation
 of materials discovery, as well as identify the knowledge gaps, opportunities and the
 recommendations from the leading scientists around the world;
- Promote collaboration opportunities to researchers, innovators, and potential investors;
- Develop new collaboration projects between key partners (government-to-government, researcher-to-researcher, public-private, etc.) in order to integrating and automating the components of materials discovery; and
- Inspire the decision makers and leaders around the world and showcase the possibilities
 and benefits that can be generated from bringing together the top minds in science and
 industry and from working together on finding solutions to the biggest global materials
 challenges.

Course of Events

The 2-days event will consist of plenary sessions, thematic panel and group discussion as well as parallel break-out sessions. The program will include sessions on the general topic "new high performance, low-cost clean energy materials". An exhibition will be held in conjunction with the meeting.

Participants

 Representatives of Mission Innovation countries Innovation Challenge 6 Clean Energy Materials.





- ✓ Australia
- ✓ Canada
- ✓ Denmark
- ✓ European Commission
- ✓ Finland
- ✓ France
- ✓ Germany
- ✓ India
- ✓ Italy
- ✓ Mexico
- ✓ Norway
- ✓ Republic of Korea
- ✓ Saudi Arabia
- ✓ Sweden
- ✓ The Netherland
- ✓ UK
- ✓ USA
- Stakeholders, such as policy makers, senior advisors, technical experts, industry representatives and investors.
- Broader public and think tanks.





PROGRAMME

Second International Meeting on Clean Energy Materials Innovation Challenge IC6

Thursday, 21st February 2019

09:00-09:30	Registration	
09:30-10:00	Setting the scene	
	Welcome Address	Dr. Sanjay Bajpai, Head, TMD (E&W), DST
	Overview of MI Challenge IC6	Co-lead Canada (Recorded message)
	Feedback of Mexico Workshop	Co-lead Mexico(Recorded message)
10:00-11:30		
11:30-12:00	Group Photo, High Tea, Poster sess Innovations	sion and Exhibition on Clean Energy Material
12:00-13:30		accelerated material development and R&D s, Solar Fuels, Thermoelectric conversion). Lead Discussant
12:00-12:25	Photovoltaics	Vikram Kumar
12:20-12:45	Batteries	Sampath / A K Shukla
12:40-13:05	Solar Fuels	Abhishek Dey
13:05-13:30	Thermoelectric conversion	Kamanio Chattopadhyay
13:30-14:30	Lunch	
14:30- 16:00		accelerated material development and R&D for Building Energy Efficiency, Power





		<u>Lead Discussant</u>
14:30-14:55	Wind Power	Balaraman
14:55-15:20	Materials for Building Energy Efficiency	Nagesh Iyer
15:20-15:45	Power Generation	S C Chetal
15:45-16:00	Power Transmission	Subir Sen
16:00- 16:30	Coffee	
16:30-17:30	Technical Session III	
	Clean Energy harnessing Conclave (Showca	sing India's R&D endeavors)
16:30-16:45	Silicon based Photovoltaic by A.K.Saxena	
16:45-17:00	Computational Approach to material design by Tarun Kumar Kundu	
17:00-17:15	Dye Sensitized Solar Cell by Suraj	
17:15-17:30	Pervoskites by Shaibal Sarkar	
17:30-18:00	Discussion on New Delhi Declaration amon	gst MI countries
18:00-20:00	Cultural Program	
20:00 onwards	Dinner	





Clean Energy Materials Challenge Public Meeting

Friday, 22nd February 2019

10:00-11:00	Technical Session IV
	Clean Energy Material harnessing R&D Conclave (Showcasing India's R&D
	endeavors)
10:00-10:15	Lithium ion Battery by Sudakar Chandran
10:15-10:30	Flexible supercapacitors by M M Shaijumon/ C Subramaniam
10:30-10:45	Bipolar Lead acid battery by Basab Chakraborty
10:45-11:00	Redox Flow Battery by H B Muralidhara
44.00 44.20	
11:00-11:30	Tea
11:30-12:45	Inauguration
11:30-11:35	Welcome Address by Dr. V. Ramgopal Rao, Director, IIT Delhi
	Accelerating Clean Energy Through Mission Innovation by Dr. Renu Swarup,
11:35-11:45	Secretary, Department of Biotechnology
11:45-11:55	Research, Development and Innovation Framework for in India on Clean Energy
11.45-11.55	Materials by Prof. Ashutosh Sharma, Secretary, Department of Science and
	Technology
11:55-12:05	Keynote Address by Dr. V. K. Saraswat, Member of NITI Aayog
	Vision of India Towards a Low Carbon, Energy Efficient Economy by Prof. K. Vijay
12:05-12:20	Raghavan, Principal Scientific Advisor & Chairman, PMSTIAC (PM Science,
	Technology and Innovation Advisory Committee), Government of India*
12:20-12:25	Adoption of New Delhi Declaration
	Release of Reports and Compendium
	Launch of IITD- Thermax Methanol Demonstration facility
12:25-12:40	Inaugural Address by Dr. Harsh Vardhan, Hon'ble Minister of Ministry of S&T and ES
12,40 12,45	Voto of thouse by Dy Conicy Poinci Hood, Tasky along Missing Divising DCT
12:40-12:45	Vote of thanks by Dr. Sanjay Bajpai, Head, Technology Mission Division, DST
12:45- 13:00	Group Photo, High Tea, Poster session and Exhibition on Clean Energy Material Innovations
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14.00 10.00	Technical Session V High Level Stakeholder Meeting with MI Representatives & Industries • MI Representative (2)* • Debashish Bhattacharjee • Rahul Walwalker
	 Rajendra Kumar Sharma Vijayamohanan Pillai Gynesh Chaudhury Narsimhan
Co Re Va Vo	Valedictory Session Conclusion Remarks & Next Steps by Sanjay Bajpai Remarks by V. Ramgopal Rao Valedictory Address by S Sivaram Vote of thanks by Ranjith Krishna Pai High Tea

^{*}To be confirmed