







# One Week One Lab Program (OWOL)



September 04-09, 2023

CSIR-National Geophysical Research Institute (CSIR-NGRI) Hyderabad, Telangana, India



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4-9 September 2023



CSIR-National Geophysical Research Institute (CSIR-NGRI), Hyderabad, is celebrating the 'One Week One Lab' program showcasing its scientific excellence and outstanding contributions in the thematic areas encompassing Geodynamics, Natural Resource Exploration and Earthquake Hazard. Researchers, Academicians, Students, Industrialists, Start-ups, MSMEs, Govt. Officials, Policy Makers and General Public are invited to participate in the event and make it memorable.

# One Week One Lab Program (OWOL)









#### **One Week One Lab Program**

#### **About The Program**

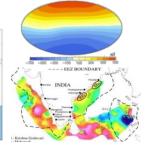
Hon'ble Minister (S&T) Dr. Jitendra Singh highlighted that each of the 37 Council of Scientific and Industrial Research (CSIR) laboratories possesses distinctiveness, specializing in a wide array of fields ranging from genomics to geology, minerals to materials, food to fuel, and more. With the aim of spotlighting and disseminating this diverse expertise throughout society, the Hon'ble Minister introduced the concept of "**One Week One Lab**." This endeavour is envisioned as a nationwide thematic campaign strategically crafted to illuminate the remarkable technological advancements and innovations originating from the CSIR labs for the people of India.

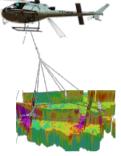
#### About CSIR-NGRI

CSIR-National Geophysical Research Institute (CSIR-NGRI), Hyderabad, was established in 1961 with the mission to carry out research in multidisciplinary areas of the highly complex structure and processes of the Earth system and its extensively interlinked subsystems. CSIR-NGRI has the mandate to conduct research for public-good science to enable government agencies, public and private sector stakeholders to make informed decisions about the use of geo-resources sustainably and improve preparedness and resilience to natural hazards. With more than 110 qualified scientists and an equal number of technical staff, 150 project researchers and 50 PhD students, state-of-art computational and laboratory facilities, and a nationwide network of observation sites, NGRI is committed to addressing the challenges of the near future and bringing the benefits of science to impact societal priorities.



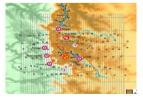


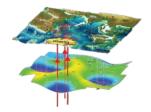




**One Lab** 















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**One Lab** 



# PROGRAM

Day 2

5<sup>th</sup> September, 2023

# **GEOSCIENCE CONCLAVE**

10:00 - 10:40	Overview of R&D activities of CSIR-NGRI Dr. Prakash Kumar, Director, CSIR-NGRI
10:40 - 11:20	Artificial Water Reservoir Triggered Earthquakes Dr. H.K. Gupta, President, Geological Society of India
11:20 - 11:30	Tea Break
11:30 - 12:10	Disequilibrium in metamorphic minerals as tape recorder of petrogenetic and orogenic processes Dr. Somnath Dasgupta, INSA Sr. Scientist, ISI Kolkata & IISER, Kolkata
12:10 - 12:50	Himalayan foreland – A traverse through the past 50 million years Dr. S. K. Tandon, Adjunct Professor, IISER Bhopal
12:50 - 14:05	Lunch
14:10 - 14:50	Emerging Areas in Hydrology Dr. Vijay P Singh, Texas A & M University, Texas, USA
14:50 - 15:30	Hydrated Moon: New insights from Indian Lunar Exploration Missions Dr. Prakash Chauhan, Director NRSC , Hyderabad
15:30 - 16:10	Evolution of continental margin segments along the east coast of India and Bangladesh and sediment deposition patterns in the Bay of Bengal Dr. K.S. Krishna, Dean, School of Sciences, GITAM University
16:10 - 16:50	The plate tectonic history of India and mantle convection Dr. Attreyee Ghosh, Associate Professor, IISc, Bangalore
16:50 - 17:00	Tea Break
17:00 - 17:40	Interactive Session (Q&A) and Future R&D discussion













## PROGRAM

Day 4-I

7<sup>th</sup> September, 2023



# **SOCIETY CONNECT**

8:30 - 11:15	Registration & Field Visit to Experimental Hydrogeological Park (Venue: EHP, NGRI Campus, Choutuppal)
11:15 - 11:20	Lighting of a Lamp
11:20 - 11:25	Welcome Address by Coordinator Dr. Subash Chandra, Sr. Principal Scientist, CSIR-NGRI
11:25 - 11:30	Introductory Remarks by Project Leader Dr. V.M. Tiwari, Outstanding Scientist, CSIR-NGRI
11:30 - 11:40	Opening Remarks Dr. Prakash Kumar, Director, CSIR-NGRI
11:40 - 11:45	Remarks by Local Sarpanch
11:45 - 12:00	Address by Chief Guest Sri. Vedire Sriram, Adviser to the Hon'ble Minister, Min.of Jal Shakti, Gov. of India
12:00 - 12:15	Address by Guest of Honour Sri. V.K. Upadhyay, Director, UPGWD Dr. P. Rajendra Prasad, Sir Arthur Cotton Geospatial Chair Professor, Andhra University
12:15 - 12:20	Vote of Thanks
12:20 - 12:40	Talk-1: Rainfall-Groundwater-Agriculture Practices Dr. Sahebrao Sonkamble, Sr. Scientist, CSIR-NGRI
12:40 - 13:05	Talk-2: Science & Technologies for Water Security Dr. Subash Chandra, Sr. Principal Scientist, CSIR-NGRI
13:05 - 13:20	Talk-3: Managed Aquifer Recharge- a success story of NGRI-EHP, Choutuppal Dr. Ved P. Maurya, Scientist & Dr. L. Surinaidu, CSIR-NGRI
13:20 - 14:15	Lunch
14:15 - 15:45	Interactive sessions with farmers Quiz on Water Conservation
15:45 - 16:00	Tea Break
16:00 - 17:00	Feedback and appreciation to farmers, closing remarks and Vote of thanks



Shubham Garden & Function Hall (SGFH), Choutuppal









PROGRAM Dav 4-II 7<sup>th</sup> September, 2023

#### **GEOTHERMAL WORKSHOP** DAY-1





Venue: E-classroom, Ground Floor, Main Building, CSIR-NGRI	
09:00 - 11:00	<ul> <li>Exploitation of Geothermal Energy – Indian Endeavor, Recent Findings and Global Advances Shri. Uday Shankar, Reliance Industries Limited (RIL)</li> <li>Geothermal Exploration at Puga-Chumathang, Ladakh Sri. Rajendra Kumar Aggarwal, GSI (Rtd.)</li> <li>Outcome of Some of the Recent Studies in the Puga Geothermal System, Ladakh, India Dr. A. Absar, ONGC Energy Center</li> <li>Resistivity Structure of the Puga Hot Spring Area in Ladakh: Implications for Geothermal Prospects Dr. K. K. Abdul Azeez, CSIR-NGRI</li> </ul>
11:00 - 11:30	Tea Break
11:30 - 13:00	<ul> <li>Overview of Geothermal Energy Resources of India - A Case Study from Manuguru Geothermal Field, Telangana Sri. Vishal Sakhare, GSI</li> <li>Challenges in Development of Tatapani Geothermal Project in Chhattisgarh Sri. Sanjeev Jain, CREDA</li> <li>Magnetotelluric Survey for Geothermal Exploration of Bakreswar Geothermal Province, Eastern India Prof. Rajib K. Sinharay, MIT World Peace University (MITWPU)</li> </ul>
13:00 - 14:00	Lunch
14:00 - 15:00	<ul> <li>Geothermal Development of Gujarat Prof. Anirbid Sircar, Pandit Deendayal Energy University (PDEU)</li> <li>Geothermal Energy Exploration and Exploitation: Key Knowledge Gaps and the Way Forward Dr. Sukanta Roy, Borehole Geophysics Research Laboratory-MoES</li> </ul>
15:00 - 16:00	Laboratory Visit at CSIR-NGRI Thermal, Geochemistry & Magnetotellurics
16:00 - 16:30	Tea Break
16:00 - 17:30	Panel Discussion and Vote of Thanks NITI Aayog/MNRE/CSIR/CSIR-NGRI/GSI/ONGC/BGRL-MoES/ AMD/PDEU/CREDA/RIL/MITWPU/Univ. of Ladakh/RIPL/SIIR







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# PROGRAM

Day 5-II

8<sup>th</sup> September, 2023

# **PUBLIC/STUDENT CONNECT**

09:30 - 15:00	Exhibition of Different R&D Activities CSIR-NGRI Campus
10:30 & 11:30	Nukkad Naatak (Street Play) In front of CSIR-NGRI Main Building
12:00 - 13:00	Quiz for students/public CSIR-NGRI Open Air Theatre

















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For more details about CSIR-NGRI OWOL Program

