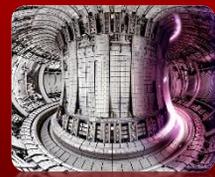




ICC Webinar Series Indian Cryogenics Council

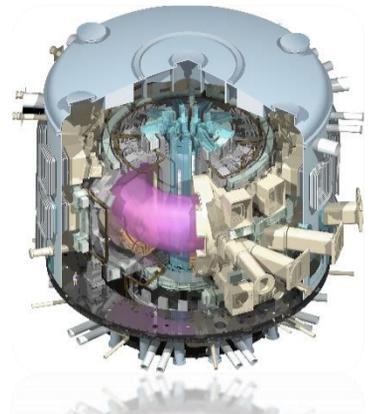


ITER & Associated Cryogenics Saturday, 20th March 2021, 4:00 PM to 6:00 PM

Fusion, the nuclear reaction that powers the Sun and the stars, is a potential source of safe, non-carbon emitting and virtually limitless energy. Harnessing fusion's power is the goal of ITER, which has been designed as the key experimental step between today's fusion research machines and tomorrow's fusion power plants.

ITER, "the way" is one of the largest experimental efforts underway in the south of France at Cadarache with an aim to demonstrate nuclear fusion as a clean green source of unlimited energy. India is contributing a great extent to the ITER by providing various in-kind packages to ITER.

The ITER experimental reactor being designed by seven partners representing more than half of the world population will be assembled at Cadarache, South of France in next few years. It is a thermonuclear fusion Tokamak that requires high magnetic fields to confine and stabilize the plasma. Cryogenic technology is extensively employed to achieve low-temperature conditions for the superconducting magnets and vacuum pumping systems. Efficient and reliable continuous operation shall be achieved despite unprecedented dynamic heat loads due to magnetic field variations and neutron production from the fusion reaction.



[Register here](#)

Webinar link will be shared post registration



Highlights

- ❖ One of the biggest Scientific and Engineering Marvel in the World
- ❖ Near Absolute zero temperature is an integral part of creating miniature sun for an alternate source of energy

Here is an opportunity to hear experts, directly involved in the project, talk about ITER and its extensive Cryogenic Technology

Who can participate

- ❖ Industry personnel: Associated with High-vacuum vessel, Cryogenic systems, Superconducting magnets, Cryolines, etc.
- ❖ Research Organizations: ISRO, DAE, DRDO, CSIR etc.
- ❖ Students and Faculties of Academic Institutes: IISc, IITs, NITs, IISERs etc.
- ❖ Graduate & Post-graduate Students, Research Scholars and Faculties of Universities and Engineering Colleges
- ❖ Those interested in future energy research



Sergio Orlandi
Head
Plant Construction Department
ITER Organization

Overview of ITER Project



Arun Chakraborty
Associate Project Director
ITER-INDIA

India's contribution to ITER



Rajkumar Panjwani
President
Cryo-Scientific Division
INOX-India, Pvt Ltd

Role of INOX in ITER Cryogenics



M.D. Atrey
President, ICC
Dean (R&D), Professor
IIT Bombay



Parag Kulkarni
Director
INOX India



V.V. Rao
Visiting Professor
IIT Kharagpur



V. Narayanan
Director
Liquid Propulsion Systems
Centre(LPSC)-ISRO

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