



GUJARAT TECHNOLOGICAL UNIVERSITY

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CIRCULAR

Interested faculty members and students may register for the following webinar which is going to be held on Tue, Mar 14, 2017 3:30 PM - 4:30 PM IST.

Virtual Academy: An Overview on CO₂ Research and its Impact on Environment

Tue, Mar 14, 2017 3:30 PM - 4:30 PM IST

Registration URL: <https://attendee.gotowebinar.com/register/5218108843252851714>

Description:

The global energy crisis has been increasing and the quest for the sustainable energy sources has been drawing utmost interest from all the research groups around the world. Carbon dioxide chemistry became more attractive area of research not only because of environmental concern but also due to its potential utilization as an alternative and economic feedstock. The utilization of CO₂ as chemical feedstock is very confined and requires large amount of energy and/or hydrogen for the abstraction of oxygen from CO₂ due to its stability. Recently CO₂ is utilized extensively as solvent, or as substrate in organic synthesis, chemical separation and natural product extractions. In addition to these enormous utilization of carbon dioxide as supercritical or dense phase reaction media have been observed. The utilization of dense phase CO₂ as reaction media attributes special properties to catalytic system such as tuned/increased selectivity of a product, high conversions, enhanced reaction rates, eliminate by products formation etc. Taking into account its unique characteristics, it is anticipated that this concept might lead to emerging new chemistry of carbon dioxide as oxidant and promoter.

Presenter:

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Registrar (I/c)