

**NATIONAL CONFERENCE
ON
GREENER TECHNOLOGIES FOR
DETECTION AND TREATMENT
OF PHARMACEUTICALS**

March 22-23, 2013

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Vice Chancellor

Jiwaji University, Gwalior, M.P.

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SECOND CIRCULAR
NATIONAL CONFERENCE
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GREENER TECHNOLOGIES FOR DETECTION AND TREATMENT OF PHARMACEUTICALS

Metabolism of many naturally occurring substances, drugs and other xenobiotics proceed by oxidative or reductive pathways. Oxidation and reduction reactions also play a prominent role in energy conversion and substrate metabolism in living organisms. Since electrochemical and enzymatic redox reactions proceed by chemically identical reaction pathways, hence, in cases where a very little information is available about the metabolism of a particular substrate, electrochemical investigations provide useful information. Now a days, various analytical techniques are employed in combination with electroanalytical techniques to explore the fundamental redox chemistry of biomolecules. Various chromatographic and spectroscopic techniques have been employed for separation and structural elucidation of the intermediates and products of electrochemical reactions. In view of the capabilities of micellar systems in stabilizing reactive intermediates, it is interesting to study redox behaviour of pharmaceuticals in wastewater and sludge.

The conference will focus on pharmaceutical wastes and will also discuss about stopping the contamination of surface water run-off at the source of the initial pollution as well as treatment of pharmaceuticals. We aim to use the excellent facilities offered by Jiwaji University to maximize communication in a targeted yet relaxed and interact with the leaders in various aspects of Environmental Chemistry. Opportunities shall be created for youngsters to be able to mix with the experienced for productive mutual exchange of ideas and methods.

OBJECTIVES

In the conference lectures and deliberations will be held on following lines:

1. Electrochemical treatment of pharmaceuticals in water and waste water.
2. Adsorption vis a vis Green Technology
3. Applications of electrochemical techniques in the detection of organic compounds & pharmaceuticals.
4. Atmospheric and water pollution.
5. Chemically modified electrodes for the identification and determination of toxic water contaminants.
6. Coordination compounds vis-a-vis Green Technology
7. Kinetics of degradation/oxidation of pharmaceuticals, organics & intermediates.
8. Photochemistry as a Green Technology for cleaner environment.
9. Green Chemistry
10. Micellar catalysed reactions.

INVITATION

The seminar organizing committee with immense pleasure invites you to participate in 'National Conference on Greener Technologies for Detection and Treatment of Pharmaceuticals, at Gwalior. The event will consist of invited talks, oral presentations and poster session. Gwalior is a historical city and is well connected from all major cities by road, rail and air. The weather in March is pleasant.

SOUVENIR AND PROCEEDINGS

A souvenir and abstracts book of contributed papers will be published on the occasion. Proceedings of seminar will be published in a separate volume and given to contributors on cost.

YOUNG SCIENTISTS AWARDS

The persons willing to be considered for award can apply directly or get them nominated (Age limit: 35 years, date of birth certificate is required).

CALL FOR PAPERS

Technical sessions will cover all facets of Environmental Chemistry. Those desirous of contributing papers should submit one page abstract including title, authors, affiliation and keywords by email on or before 15th February, 2013 to following address:

rajeevjain54@yahoo.co.in

Full papers should be submitted by
28th February, 2013

REGISTRATION DETAILS

Students/ Research Scholars	: Rs. 500/-
University/ Research Institute	: Rs. 1000/-
Accompanying persons	: Rs. 500/-

Registration fee may be paid in the form of DD or in cash.