

REPORT ON
ATTENDED/CONDUCTED CONFERENCES
(INTERNATIONAL/NATIONAL)/SEMINAR/ WORKSHOPS/SHORT TERM
COURSES/VISITED INDUSTRY
UNDER INTERNATIONAL TRAVEL SUPPORT SCHEME

Permission letter No. and date : **NMU/UICT/736/2013** Date: **23/07/2013**

1. Name of the Faculty : **Dr. Jitendra Baliram Naik**

2. Full address of the University : **University Institute of Chemical Technology,**
with Department **North Maharashtra University, Umavi Nagar,**
Post Box no. 80, Jalgaon, Maharashtra

3. Name of the Event : **3rd World conference on Physico Chemical**
Methods in Drug Discovery and Development

5. Place and Date of the Event : **Importanne Resort Hotels, Dubrovnik, Croatia**
(Europe) and 22/09/2013 to 26/09/2013

6. Academic Highlights including new Development presented at the Conference (200 words):

Various research topics were presented by research scientist in the conference which is very helpful in the drug developments and discovery field. Followings are the list of important topics were discussed in the conference.

1. The role of physicochemical properties in pathways based toxicology risk assessment.

2. Integrated physicochemical methods for effective drug candidate selection
3. Uses of physicochemical properties to estimate the pharmacokinetics and pharmacodynamics of antibacterial fluoroquinolones.
4. Application of in situ concentration monitoring: release from nanoparticles, supersaturation, dual component separation and more.
5. The importance of pKa values in pharmaceutical science
6. Biorelevant in vitro performance testing of orally administered drug product: What and why?
7. Advanced Raman techniques in new drugs research and development.
8. X-ray diffraction methods in drug design.
9. AFM nanoimaging and nanomechanics for nanomedicine.

7. Participation Contribution to the Conference (100 words):

Considering the novelty and importance of research work, I have oral presentation of my research work in the conference. The "3rd World Conference on Physico Chemical Methods in Drug Discovery and Development held from 22nd to 26th September 2013 at **Importanne Resort Hotels, Dubrovnik, Croatia** was a good platform to the Scientist, academicians and research students those doing their research in this innovative field. In coming years Environment will generate a fast momentum with great results. Presently I am engaged with formulation, development, characterization of Nanomedicine via formulating nanoparticles of NSAIDs, Antidiabetic, and antihypertensive drugs. The developed formulation of these drugs can decrease the dosing frequency as we sustained the release of dosage form. Besides this I am trying to use different kinds of biodegradable polymers for the formulation of nanoparticles by which we can achieve sustained release formulation with patient compliance from this life threatening disease.

By attending the conference, we have collaborated with scientist from the various institutes and pharmaceutical industries for various research project by which we can establish Academia-Industry-Institute Interaction in the field of research which is important for the students as well as the institute because our institute belongs to tribal area where the industries are very less.


8. Outcome from the visit:

The knowledge gain from the different Key note speakers, invited speaker and session speaker, in our research area shall help me to optimize proper process in our research laboratory.

Outcomes:

1. Interaction with International scientist and Academician for novel research work.
2. Collaboration with foreign delegates in the research field.
3. Developed research interaction with foreign delegates.
4. To go in the basic of global need in the field of research.
5. Establishment of Academia- Industry-Institute Interaction in the field of research

Date: 30/9/2013


(Dr. Jitendra B. Naik)