INTERNATIONAL WORKSHOPS







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GLOBAL INITIATIVE OF ACADEMIC NETWORKS

National Coordinating Institute

NDIAN INSTITUTE OF TECHNOLOGY KHARAGPUR

PU GIAN Workshop No. 2



INTERNATIONAL WORKSHOP

on

"Heterogeneous Catalysis and Applications"

'An event under'





August 01-05, 2016

Venue:

Seminar Hall, Department of SAIF/CIL-Panjab University, Chandigarh

Organized by:
Panjab University, Chandigarh
under the aegis





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Workshop Overview

Total number of participants: 51					
Sr. No.	Name of the Institute	Number of participants			
1	Panjab University	33			
2	SVNIT, Surat	3			
3	Thapar University, Patiala	3			
4	BBAU, Lucknow	2			
5	PTU, Jalandhar	1			
6	NIT, Jalandhar	1			
7	NIPER, Mohali	1			
8	IIT, Patna	1			
9	GNDU, Amritsar	1			
10	Lingaya's University, Faridabad	1			
11	DCRUST, Murthal	1			
12	GJUST, Hisar	1			
13	BCET, Gurdaspur	1			
14	GGSC, Chandigarh	1			

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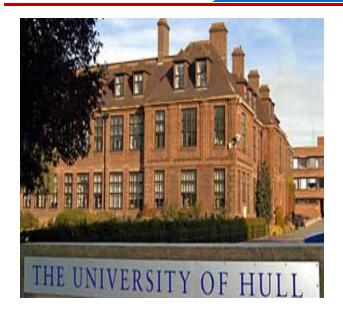


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Guest Faculty

Prof. Alex Ibhadon
Departments of Chemical
Engineering & Chemistry
The University of Hul
United Kingdom





Course coordinator GIAN

Prof. Sushil K. Kansal
Dr S. S. Bhatnagar University Institute
of Chemical Engg. & Technology
Panjab University, Chandigarh





Day-1: Inauguration Global Initiative of Academic Network













Day-1: Inauguration Global Initiative of Academic Network













HETEROGENEOUS CATALYSIS AND APPLICATIONS



Prof. Dr. Alex Ibhadon

Departments of Chemical Engineering and Chemistry The University of Hull, United Kingdom HU6 7RX

Module A

Heterogeneous catalysis, state of the art and novel concepts, material properties and design considerations (Novel Reactor Concepts)

Lecture 1: Homogeneous, Heterogeneous catalytic processes – introduction, scope, applications and constraints.





Lecture 2: Novel hybrid materials for heterogeneous catalysis-beyond the state of the art

Lecture 3: Design, Synthesis and Characterization of heterogeneous catalyst materials.

Lecture 4: Discussion of the various types of heterogeneous catalyst materials and metal support interactions in heterogeneous catalyst materials

Lecture 5: Heterogeneous Catalytic Reactors – State of the art

Lecture 6: Heterogeneous Catalytic Reactors – Beyond state of the art

Lecture 7: Smart Reactors, Heterogeneous Catalysis and new 'Process Windows'

Tutorial





Module B

Heterogeneous Catalysis in the Fine Chemicals Industry/ Wastewater treatment

Lecture 8: Application of heterogeneous catalyst materials in the synthesis of vitamins

Lecture 9: Application of heterogeneous catalyst materials in the synthesis of fragrances, flavors and carotenoids.

Lecture 10: Application of heterogeneous catalyst materials in the synthesis of drugs and pharmaceuticals.

Lecture 11: Application of heterogeneous catalyst in environmental remediation, meeting clean energy demands and wastewater treatment.

Lecture 12: On-line Processing, Parallelization and Heterogeneous Catalysis.















Day-7: Valedictory Function Global Initiative of Academic Network













Day-5: Last Day Group Photograph Global Initiative of Academic Network









S/No	Course Title	Foreign Faculty Affiliation	Country	Duration
1.	Amphiphilic Molecules and Self- Assemby: Principles and Applications	Prof. Dr. Michael Gradzielski, Technische universitat Berlin.	Germany	March 22-28, 2016
2.	Heterogeneous, Catalysis and Applications	Prof. Dr. Alex Ibhadon, Department of Chemical Engineering and Chemistry, University of Hull	United Kingdom	August 1-5, 2016
3.	Novel and Nanostructured Drug Delivery for Diverse Biomedical Applications	Prof. Mandip S. Sachdeva, Florida A&M University	United States of America	October 24-28, 2016
4.	Process Safety and Risk Engineering	Prof. Dr. Faisal Irshad Khan, Faculty of Engineering and applied Science, Memorial University	Canada	November 14-19, 2016
5.	Receptor- based Drug Discovery	Dr. Karl-Norbert Klotz, University of Wurzburg	Germany	November 21-28, 2016
6.	Advanced lithium batteries science and technology	Dr. Christian M. Julien, Sorbonne University, Univ. Pierre and Marie Curie	France	December 12-17, 2016
7.	Innovative Organic Chemistry for New	Dr. Robert H. Dodd.	France	June 21-22, 2016
8.	Biomechatronics: Principles and techniques in rehabitation	Prof. Ravi Vaidyanathan, Imperial college of London, Department of Mechanical Engineering	United Kingdom	December 18-24, 2016

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Lessons we learned Experience we gained