About workshop

Microfluidics is the study of systems that can process small quantities of fluids by using tiny channels having dimensions at the microscale. Microfluidics, has emerged as a new distinct field. It has a great potential to influence the areas from chemical synthesis. biological analysis to optics and information technology. Very high heat and mass transfer rates, specific surface area, precise control over bubble size, short diffusion distances, ease of handling hazardous chemicals etc., are some of the features of microfluidics. This workshop focuses on the fundamentals of its hydrodynamics, heat and mass transfer characters. Sessions on fabrication techniques, experimental demonstration of gas-liquid /liquid-liquid flow behaviour and CFD simulations are included.

About MNIT

The college was established in 1963 with the name as Malaviya Regional Engineering College, Jaipur, as a joint venture of the Government of India and the Government of Rajasthan, Subsequently; on June 26, 2002 the college has been given the status of National Institute of Technology and on 15 August 2007, Proclaimed Institute of National Importance through Act of Parliament. The Institute is fully funded by Ministry of Human Resource Development (MHRD), Government of India. More than 12,000 students have already been graduated since its establishment.

Organizing Committee

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Address for Correspondence

Dr. U. K. Arun Kumar

Department of Chemical Engineering MNIT, J.L.N. Marg,
Jaipur Rajasthan-302017

A Five Days Workshop on Fundamentals & Applications of Microfluidics

(1st-5th April, 2019)



Organized by

Department of Chemical Engineering

MNIT Jaipur

&

Department of Mechanical Engineering
CTAE, Udaipur

Under TEQIP-III

Malaviya National Institute of Technology Jaipur

J.L.N. Marg, Jaipur-302017

About the Department

The Department of Chemical Engineering was commenced in the year 1988. The PG Programmes of M.Tech. in Chemical Engineering and Ph.D. was started in year 2006 and 2004 respectively. The current sanctioned strength of the B.Tech. Chemical Engineering Program and M.Tech Chemical Engineering Program is 100 and 25 respectively for Full time Courses. The Department is well equipped with good undergraduate laboratories and research laboratories. The Department aims to provide students with a balance of intellectual and practical expertise that enables them to serve the worldwide chemical industry as well as the societal needs. The curriculum has been designed to meet the programme goals and objectives that lay more stress on learning under the guidance of a vibrant and highly qualified faculty.

About Jaipur

Jaipur is a lively and vibrant city in the state of Rajasthan and is located in Northern India at a distance of around 265 km from Delhi. Jaipur offers a multitude of interesting places and tourist attractions. There a several magnificent palaces and forts such as the Hawa mahal, Amber fort, Jaigarh fort, Nahargarh fort, Jaimahal, City place, Jantar Mantar etc., which are situated at the heart of the city. It is a city of fun, food and festivals. It is well known as the "Pink City" which is a heady mix of tradition and modernity. Jaipur is very well connected to other parts of the country through air, rail and road. The weather of Jaipur in the month of April is pleasant, and the temperature in the day time remains between 25 to 30 °C.

Local Accommodation

Accommodation at the Institute guest houses will be available on payment basis. The details regarding boarding and lodging are as follows: Rates:

Guest House 1 (Limited capacity): (Single occupancy, double-bedded a/c room): Rs. 950/- per day.

Guest House 2: (Single occupancy, double-bedded a/c room): Rs. 750/- per day.

Aurobindo Boys Hostel: (Single occupancy, single-bedded non a/croom): Rs. 200/- per day.

Gargi Girls Hostel: (Dormitory): Rs. 200/- per day (Single occupancy, single-bedded non a/c room).

Major Topics that will be focused in the workshop

Introduction to microfluidics

Participants from Abroad

- Design and fabrication of microchannels
- Hydrodynamics of fluid flow in microchannels (Gas & Liquids)
- CFD simulations of fluid flow in microchannels
- Application of microfluidics for chemical processes

Registration Fee

Student UG/PG/PhD Scholars	Rs.750
● Academician	Rs.2500
● Industries & R&D labs	Rs.2500

Participants are requested to send a Demand Draft in favor of "REGISTRAR, MNIT Jaipur" payable at Jaipur with a print out of the filled in Registration form, by Courier/ Speed Post/ Registered Post before 28th March, 2019 to: Dr. U. K. Arun Kumar, Assistant Professor, Department of Chemical Engineering, MNIT JAIPUR, J.L.N. Marg, Jaipur-302017, Rajasthan, India. Or You may email a scanned copy of the DD and the signed registration form by the deadline to

Dr. U. K. Arun Kumar ukakumar.chem@mnit.ac.in (9549654174) Dr.V. Subbaramaiaha

vsr.chem@mnit.ac.in (9549650141)

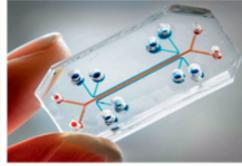






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Fundamentals & Applications of Microfluidics 1st – 5th April, 2019

REGISTRATION FORM

Name
Category (Academic/Student/Industry/R&D)
Designation:
Department:
Institution:
Town/City:
Country:
E-mail:
Mobile No:
Registration Fee:

Payment by DD in favour of "REGISTRAR, MNIT JAIPUR" payable at Jaipur.

Cash/D.D. No.....