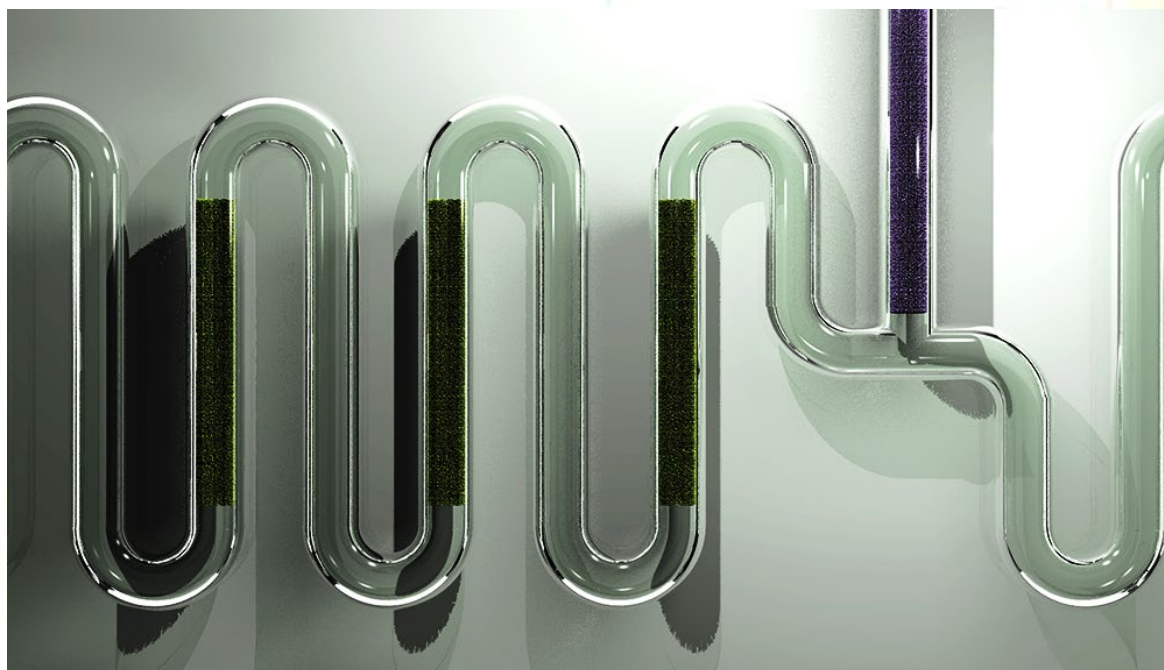


INTERNATIONAL WORKSHOP ON MICROFLUIDICS

24 – 28 Feb 2020

PROGRAM SCHEDULE



Organized by

Department of Chemical Engineering and Department of Physics
Shiv Nadar University

Supported by



SHIV NADAR UNIVERSITY

International Workshop on Microfluidics from 24-28 Feb 2020

DAY 1 (24 Feb 2020)			
Registration : 8:00 – 9:00 hrs, Venue : C021			
Inauguration : 9:00 – 9:30 hrs, Venue : C021			
Time (hrs)	Lecture No	Speaker	Room No
09:30 – 10:30	L-1	Prof. Vivek V Buwa	D330
10:40 – 11:40	L-2	Prof. P. K. Panigrahi	D330
11:50 – 12:05 (Tea Break)**			
12:05 – 13:05	L-3	Dr. Gopalkrishna Hegde	D330
13:15 – 14:15 (Lunch Time)*			
14:15 – 16:30	Demonstration – Microchannel Fabrication	Dr. V. M. Rajesh/Dr. Susanta Roy	C004/R011
16:30 – 16:45 (Tea Break)**			
16:45 – 17:45	Demonstration – Microchannel Fabrication	Dr. V. M. Rajesh/Dr. Susanta Roy	C004/R011

DAY 2 (25 Feb 2020)			
Time (hrs)	Lecture No	Speaker	Room No
09:30 – 10:30	L-4	Dr. Gopalkrishna Hegde	D330
10:40 – 11:40	L-5	Dr. Harpreet Singh Grewal	D330
11:50 – 12:05 (Tea Break)**			
12:05 – 13:05	L-6	Prof. P. K. Panigrahi	D330
13:15 – 14:15 (Lunch Time)*			
14:15 – 16:30	Demonstration- Microchannel Surface Characterization	Dr. V. M. Rajesh/Dr. Susanta Roy	D117B/R003B/A013
16:30 – 16:45 (Tea Break)**			
16:45 – 17:45	Demonstration- Microchannel Surface Characterization	Dr. V. M. Rajesh/Dr. Susanta Roy	D117B/R003B/A013

DAY 3 (26 Feb 2020)			
Time (hrs)	Lecture No	Speaker	Room No
09:30 – 10:30	L-7	Prof. Vivek V Buwa	D330
10:40 – 11:40	L-8	Prof. James McLaughlin	D330
11:50 – 12:05 (Tea Break)**			
12:05 – 13:05	L-9	Dr. V. M. Rajesh	D330
13:15 – 14:15 (Lunch Time)*			
14:15 – 16:30	Demonstration – Microchannel Experiments	Dr. V. M. Rajesh/Dr. Susanta Roy	D113
16:30 – 16:45 (Tea Break)**			
16:45 – 17:45	Demonstration – Microchannel Experiments	Dr. V. M. Rajesh/Dr. Susanta Roy	D113

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DAY 4 (27 Feb 2020)			
Time (hrs)	Lecture No	Speaker	Room No
09:30 – 10:30	L-10	Dr. Susanta Roy	D330
10:40 – 11:40	L-11	Prof. Debjani Paul	D330
11:50 – 12:05 (Tea Break)**			
12:05 – 13:05	L-12	Prof. Suman Chakraborty	D330
13:15 – 14:15 (Lunch Time)*			
14:15 – 16:30	Demonstration – Microchannel Simulations	Dr. V. M. Rajesh/Dr. Susanta Roy	D317
16:30 – 16:45 (Tea Break)**			
16:45 – 17:45	Demonstration – Microchannel Simulations	Dr. V. M. Rajesh/Dr. Susanta Roy	D317

DAY 5 (28 Feb 2020)			
Time (hrs)	Lecture No	Speaker	Room No
09:30 – 10:30	L-13	Prof. Debjani Paul	D330
10:40 – 11:40	L-14	Prof. Sathuluri Ramachandra Rao	D330
11:50 – 12:05 (Tea Break)**			
12:05 – 13:05	L-15	Dr. Seshadri Kumar	D330
13:15 – 14:15 (Lunch Time)*			
14:15 – 15:15	Feedback Session		D330
15:15 – 16:00	Certificate Distribution and Closing Remarks		D330
16:00 – 16:30 (High-Tea)**			

*Venue for lunch between C & D block atrium; ** Venue for High-Tea D-320

Room No's	Name	Purpose
<i>D330</i>	<i>Conference Room</i>	<i>Workshop Lectures</i>
<i>C004</i>	<i>Advanced Manufacturing Laboratory</i>	<i>Demonstration on microchannel fabrication using CNC milling technique</i>
<i>R011</i>	<i>Carbon-sensors Laboratory</i>	<i>Demonstration on microchannel fabrication using laser technique</i>
<i>D117B</i>	<i>Sustainability and Polymers Laboratory</i>	<i>Demonstration on Optical Microscope</i>
<i>R003B</i>	<i>Characterization Laboratory</i>	<i>Demonstration on Profilometer</i>
<i>A013</i>	<i>Surface Science Laboratory</i>	<i>Demonstration on Drop Shape Analyzer</i>
<i>D113</i>	<i>Microfluidics Laboratory</i>	<i>Demonstration on multiphase flows experiments</i>
<i>D317</i>	<i>General Purpose Laboratory-II</i>	<i>Demonstration on multiphase flows simulations (PF and VOF)</i>

Lecture Titles:

L-1	Introduction to Microfluidic Devices and Microreactors
L-2	Flow Physics at Micro Scale
L-3	Microchannel Fabrication: Fundamentals and Simple Techniques
L-4	Advanced Microchannel Fabrication Techniques
L-5	Surface Engineering Practices for Modulating Wetting and Tribological Characteristics
L-6	Droplet-Based Protein Crystal Growth
L-7	Multiphase Flows in Microfluidic Devices and Microreactors
L-8	Applications of Microfluidics in Biomedical Devices
L-9	Computational Models (PF & VOF) to Simulate Multiphase Flows in Microchannels
L-10	CO ₂ Laser Based Micro-fabrications and Role of Surface Modifications in Microfluidics Devices
L-11	Microfluidics Devices for Blood Analysis
L-12	Diagnostics with Blood at Extreme Point of Care
L-13	Paperfluidics for affordable healthcare
L-14	Nano /micro Fabricated Devices for Single-cell Screening and Analyses
L-15	Engineering, Manufacturing, and Market Challenges to Commercialization of a Microfluidics Platform: The Achira Experience

