



## SMYIM 2020 Conference Schedule

Each Talk in section will last for 30 mins (20 min talk + 9 min questions + 1 min changeover)

Each Poster Presentation will last for 10 mins (3 min Post presentation + 6 min questions + 1 min changeover)

Time is precious for all so please complete the talk in your time limit.

### Day 1: Thursday, 3<sup>rd</sup> Dec 2020

<https://zoom.us/j/92790588294?pwd=TU1XaWhLLy9GeThwbVZrVXk0THhjdz09>

Passcode: 647923

Time slot	Session Number	Sub-session name	Session chair
9:00-9:30AM		Meet-and-greet	
09:45-12:15PM	Session 1 09:45-10:15 10:15-10:45 10:45-11:15 11:15-11:45 11:45-12:15	<b>Colloids, Droplets &amp; Polymers</b> (1) Dr. Danny Raj M (2) Dr. Thaseem Thajudeen (3) Dr. Udit Ghosh (4) Dr. Uddipta Ghosh (5) Dr. Devranjan Samanta	Dr. Danny Raj M (IISc)  Dr. Basavaraj Madivala Gurappa (IITM)
12:15-01:45PM		<b>Lunch Break</b>	
01:45-03:45PM	Session 2 01:45-02:15 02:15-02:45 02:45-03:15 03:15-03:45	<b>Colloids &amp; Turbulence</b> (1) Dr. Ashwin Joy (2) Dr. Nitya Nand Gosvami (3) Dr. Jason R Picardo (4) Dr. Ananth Govind Rajan	Dr. Ananth Govind Rajan (IISc)  Dr. Susmita Dash (IISc)
03:45-05:15PM	Poster session	Poster Session 10 min for each poster presenter	Dr. Jason R Picardo (IITB)  Dr. Uddipta Ghosh (IITGn)
05:15-05:30PM		<b>Break</b>	
05:30-06:30PM	Keynote Talk	Prof. Sanat Kumar, Columbia University, USA Title: <b><i>Problem Solving Defines my Professional Career</i></b> 45 min Discussion +15min QA session	Dr. Basavaraj Madivala Gurappa (IITM)

**Day 2: Friday, 4<sup>th</sup> Dec 2020**

<https://zoom.us/j/91552266976?pwd=OUhqZnUyOEUxeGwyVm5lUTlPUmphdz09>

Passcode: 692371

Time slot	Session number	Sub-session name	Session chair
9:00-11:30 AM	Session 3 09:00-09:30 09:30-10:00 10:00-10:30 10:30-11:00 11:00-11:30	<b>Microfluidics, Soft matter &amp; materials</b> (1) Dr. Aditya Bandopadhyay (2) Dr. Koushik Viswanathan (3) Dr. Priya Gambhire (4) Dr. Tarak Kumar Patra (5) Dr. Vishal Nandigana	Dr. Gaurav Tomar (IISc)  Dr. Susmita Dash (IISc)
11:30-01:10 PM	Poster session	Poster Session 10 min for each poster presenter	Dr. Jason R Picardo (IITB)  Dr. Uddipta Ghosh (IITGn)
01:10-02:15 PM		<b>Lunch break</b>	
02:15-04:45 PM	Session 4 02:15-02:45 02:45-03:15 03:15-03:45 03:45-04:15 04:15-04:45	<b>Active matter (including bio)</b> (1) Dr Anjana Badrinarayanan (2) Dr. Shobhna Kapoor (3) Dr. Subhasis Halder (4) Dr. Sunita Srivastava (5) Dr. Tamal Das	Dr. Purna Sharma (IISc)  Dr. Alope Kumar (IISc)
04:45-05:00 PM		<b>Break</b>	
05:00-05:45 PM	Keynote Talk	Prof. Guruswamy Kumaraswamy, IIT Bombay Title: <i>Soft Matter and Industry</i> 35 min Talk +10 min QA session	Dr. Dillip K Satapathy (IITM)
05:45-06:15 PM		Discussion for SMYIM 2021	

**Day 3: Saturday, 5<sup>th</sup> Dec 2020**

<https://zoom.us/j/98090040727?pwd=OHlVbnhxUEYyTTBNclVYNE4zN3l2QT09>

Passcode: 194840

Time slot	Session number	Sub-session name	Session chair
09:00-11:30AM	Session 5 09:00-09:30 09:30-10:00 10:00-10:30 10:30-11:00 11:00-11:30	<b>Interfaces, Colloids and polymers</b> (1) Dr. Shubhadeep Mandal (2) Dr. Sriharitha Rowthu (3) Dr. Ratul DasGupta (4) Dr. Vijay Krishnamurthy (5) Dr. Divya Nayar	Dr. Koushik Viswanathan (IISc)  Dr. Alope Kumar (IISc)
11:30-11:45AM		Valedictory Function	

### Invited Talk Schedule

	Sr. No.	Name	Title	Time
<b>Day 1</b>				
<b>Session 1</b>	1	Dr. Danny Raj M	Simple models for soft-matter	09:45-10:15
	2	Dr. Thaseem Thajudeen	Fractal Aggregates: Formation, Classification and Characterization	10:15-10:45
	3	Dr. Udit Ghosh	Rod climbing effect	10:45-11:15
	4	Dr. Uddipta Ghosh	Interfacial phenomena in Compound Drops	11:15-11:45
	5	Dr. Devranjan Samanta	Non-Newtonian droplet impact behaviour	11:45-12:15
<b>Session 2</b>	6	Dr. Ashwin Joy	Transport Scaling Laws in Living Turbulence	01:45-02:15
	7	Dr. Nitya Nand Gosvami	Nanoscale tribochemical reactions and triboprinting via liquid dispersed molecular additives and nanoparticles	02:15-02:45
	8	Dr. Jason R Picardo	Polymer scission in turbulent flows	02:45-03:15
	9	Dr. Ananth Govind Rajan	Role of Electrostatic Interactions in the Wettability and Frictional Properties of Heteropolar 2D Materials	03:15-03:45
<b>Day 2</b>				
<b>Session 3</b>	10	Dr. Aditya Bandopadhyay	Universal Rheocoalescence	09:00-09:30
	11	Dr. Koushik Viswanathan	Stick-slip, detachment waves and interface fracture in soft interfaces	09:30-10:00
	12	Dr. Priya Gambhire	Squeezing Red Blood Cells in a Spleen-on-chip	10:00-10:30
	13	Dr. Tarak Kumar Patra	Machine Learning for Predicting Phase Transitions and Dynamical Crossovers in Polymers	10:30-11:00
	14	Dr. Vishal Nandigana	Micro/Nanofluidics and nanofluidics: Can we understand how they meet?	11:00-11:30
<b>Session 4</b>	15	Dr Anjana Badrinarayanan	Searching for homology: in vivo mechanisms of bacterial homologous recombination	02:15-02:45
	16	Dr. Shobhna Kapoor	Mycobacterium Tuberculosis Glycolipids Disorganize Host Cell Membranes and Rewire Membrane Mechanics During Infection	02:45-03:15
	17	Dr. Subhasis Halder	The mechanical role of chaperones	03:15-03:45
	18	Dr. Sunita Srivastava	Polyelectrolyte in a multivalent salt environment	03:45-04:15
	19	Dr. Tamal Das	Emergent Features of Collective Cell Migration	04:15-04:45
<b>Day 3</b>				
<b>Session 5</b>	20	Dr. Shubhadeep Mandal	Numerical simulations of microswimmers in nematic liquid crystal	09:00-09:30
	21	Dr. Sriharitha Rowthu	Large area micropatterning of Alumina by colloidal lithography	09:30-10:00
	22	Dr. Ratul DasGupta	Jet formation from nonlinear capillary-gravity waves	10:00-10:30
	23	Dr. Vijay Krishnamurthy	Single files, anisotropic inclusions and noise control in active particles	10:30-11:00
	24	Dr. Divya Nayar	A Microscopic View of Crowding Effects on Hydrophobic Polymer Collapse	11:00-11:30

### Poster Presentation Schedule

Sr. No.	Name	Poster Title	Time
<b>Day 1</b>			
1	Vaibhav Raj Singh Parmar (RRI)	Effect of aging on Cracking of desiccating Laponite suspensions	03:45-03:55
2	Sanjoy Khawas (IITB)	Evaporative Self-assembly of Gold Nanorods	03:55-04:05
3	Vegetina Sarath Chandra Varma (IISc)	Universality in coalescence of polymeric fluids	04:05-04:15
4	Sriram Krishnamurthy (IITM)	Kinetic Model For The Aggregation Of A $\beta$ 40 Peptide Under Different Shear Conditions	04:15-04:25
5	Anuj Chhabra (IITB)	Electrostatic interactions of the Polyelectrolyte polymers attached to the spherical surface	04:25-04:35
6	Merin Jose (IITM)	Evaporative self-assembly of binary mixture of soft colloids	04:35-04:45
7	Navin Kumar Chandra (IISc)	Streamer Formation in Particle Laden Polymeric Flows	04:45-04:55
8	Chandeshwar Misra (RRI)	The role of solvent microstructure on the aging dynamics and rheology of aqueous suspensions of a soft colloidal clay	04:55-05:05
<b>Day 2</b>			
9	G Manikandan (IITM)	Rapid Moisture Responsive Silk Fibroin Actuators	11:30-11:40
10	Yogesh Arya (RRI)	Behaviour of Laponite nanoplatelets in different binary solvents	11:40-11:50
11	Pranjal Agarwal (IISc)	Droplet Dynamics in Transitional Boiling Regime	11:50-12:00
12	Dr. Ruchika Dadhich (IITB)	Virulence associated Mycobacterial glycolipid with distinct conformational attributes modulating lateral organisation in host plasma membrane, autophagy and cellular signalling	12:00-12:10
13	Ganeshula Prasanth (IITM)	Experimental Investigation of Sedimentation of Shape anisotropic Colloidal dispersions	12:10-12:20
14	Nithin Madhavan (IITM)	Porous ceramics from processable Pickering emulsions stabilised by oppositely charged colloids	12:20-12:30
15	Rajkumar Biswas (RRI)	Quantifying the destructuring of a thixotropic colloidal suspension using falling ball viscometry	12:30-12:40
16	Rumiaya Pervin (IITM)	Controlled polymer film porosity for solvent triggered self-actuation	12:40-12:50
17	Palak (RRI)	Side branched patterns, coalescence and stable interfaces during radial displacement of a viscoelastic fluid	12:50-01:00
18	Anjana P Menon (IITB Monash University)	Effect of Anti-tubercular drug on the Mycobacterial cell membranes at different growth stages	01:00-01:10