

## Center for Soft Matter and Biological Physics Virtual Symposium 2021

### Scientific Program

Wednesday, May 19, 2021

	Time	Speaker	Talk Title
	9:30-9:35	Uwe Tauber	Welcome
Session 1, Chair: Sudipta Gupta			
1	9:35-9:55	Ruslan Mukhamadiarov	Temperature interfaces in the Katz-Lebowitz-Spohn driven lattice gas
2	9:55-10:15	James Stidham	Emerging spatio-temporal patterns in cyclic predator-prey systems with habitats
3	10:15-10:35	Priyanka	Boundary effects in a dynein-inspired multilane exclusion process
4	10:35-10:55	Jason Czak	Creating novel patterns with spatially localized perturbations in non-linear reaction-diffusion systems
	10 minute break		
Session 2, Chair: Ruslan Mukhamadiarov			
5	11:05-11:25	Justin Barone	The fringed micelle morphology as a model for biological elastomers
6	11:25-11:45	Wenya Shu	Negative durotaxis of metastatic cells: Insights from a multiscale and chemo-mechanical model
7	11:45-12:05	Sudipta Gupta	Space time evolution of vesicles under external perturbation
8	12:05-12:25	Sohan Kale	Mechanics of microbial adhesion on nano-patterned surfaces
	lunch break		
Session 3, Chair: Wenya Shu			
9	1:30-1:50	Luan Doan	The origin and implications of bound water around hemeproteins
10	1:50-2:10	Chinmay Katke	A multiphase theory for transient osmotic swelling of chemically responsive hydrogels
11	2:10-2:30	Ranit Mukherjee	Jumping ice
12	2:30-2:50	Ming Fan	Modeling capillary fluctuations for fluid flow with lattice Boltzmann methods
	10 minute break		
Session 4, Chair: Hyunggon Park			
13	3:00-3:20	Joel Serrano	Delineating the solar desalination in meso- and micro-pores
14	3:20-3:40	Wenge Huang	Thermal circuit analysis of droplet evaporation on hot microstructured superhydrophobic surfaces
15	3:40-4:00	Xukun He	Self-driven transport of liquid droplets in V-shaped grooves due to asymmetric evaporation
16	4:00-4:20	Binghan Liu	Dispersing colloidal particles in various solvents: from monomers to oligomers
	symposium concludes		

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**Zoom Meeting Link**

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