

Program
Geilo School 2023, 13-23 March
Physics of Evolving Matter:
Connectivity, Communication and Growth

1st Day Monday March. 13		
18:00	<i>Arrival</i>	<i>Bus transportation of participants from Oslo airport (14:45) and Oslo central station (14:00) to Geilo</i>
18.00-19.00	<i>Registration</i>	
19.00-20.00	<i>Reception</i>	<i>Welcome Drink in the Bar</i>
20.00 -22.00	<i>Dinner</i>	
22.00-22.15	<i>Arne Skjeltnop</i>	<i>Opening</i>
2nd Day Tuesday March 14		
08:30-11:30	<i>Petter Holme</i>	Models of human interaction
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30-17:30	<i>Orlin Velev</i>	Active soft matter controlled and powered by electric and magnetic fields 1. General principles and directed assembly and manipulation
17:30-18:30		Tutorial group meetings and informal discussions with lecturers
3rd Day Wednesday March 15		
08:30-09:30	<i>Orlin Velev</i>	2. Propulsion of active particles and active matter reconfiguration
09:30- 11:30	<i>Ivan Davidovitch</i>	Inference of network connectivity from neural activity in Neuroscience
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30-16:30	<i>Ivan Davidovitch</i>	Inference of network connectivity from neural activity in Neuroscience (Ctd.)
16:30-17:30	<i>Olli Ikkala</i>	From bio-mimetic materials to life-inspired dynamic materials
17:30-18:30		Tutorial group meetings and informal discussions with lecturers
4th Day Thursday March 16		
08:30-10:30	<i>Olli Ikkala</i>	From bio-mimetic materials to life-inspired dynamic materials (Ctd.)
10:30-11:30	<i>Vinny Manoharan</i>	Viruses: a perspective from soft-matter physics
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30- 17:30	<i>Vinny Manoharan</i>	Viruses: a perspective from soft-matter physics (Ctd.)
17:30-18:30		Tutorial group meetings and informal discussions with lecturers
5th Day Friday March 17		
08:30-11:30	<i>Stéphane Douady</i>	Morphogenesis of Interconnecting networks 1) examples: cities, rivers, leaves, gorgons, jellyfishes 2) analysis of spatial networks / growth rules 3) morphogenesis and evolution
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30-18:30	Poster session	Bardølasalen Posters left on display until Wednesday, March 22

6th Day Saturday March 18		
08:30- 09:30	Maciej Lisicki	Twist and turn. Elastohydrodynamics of soft and living matter
09:30- 10:30	Jarle Breivik	The evolutionary meaning of cancer
10:30- 11:30	Florence Elias	The physics of liquid foams
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30-17:30	Florence Elias	The physics of liquid foams (Ctd.)
17:30-18:30		Tutorial group meetings and informal discussions with lecturers
7th Day Sunday March 19		
<i>Free</i>	<i>Choice of excursions to nearby scenic places or various skiing or hiking events in the mountains</i>	
8th Day Monday March 20		
08:30- 11:30	L. Mahadevan	1. Embodied Intelligence - from bugs to bots 2. Motifs in Morphogenesis - from bodies to brains
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30- 17:30	Min-Hui Li	Soft actuators and artificial muscles by liquid crystal elastomers
17:30-18:30		Tutorial group meetings and informal discussions with lecturers
9th Day Tuesday March 21		
08:30- 09:30	Min-Hui Li	Soft actuators and artificial muscles by liquid crystal elastomers (Ctd.)
09:30- 11:30	Albert-László Barabási	Network Science
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30- 16:30	Albert-László Barabási	Network Science (Ctd.)
16:30-17:30	Yves Méheust	Flow-induced constraint drives phenotypic heterogeneity in bacterial growth and adhesion on surfaces
17:30-18:30		Tutorial group meetings and informal discussions with lecturers
10th Day Wednesday March 22		
08:30- 10:30	Françoise Brochard-Wyart	A tour of my soft matter garden
10:30- 11:30	Christophe Eloy	Planktonic navigation
11:30-15:30	<i>Discussions, outdoor activities and lunch</i>	
15:30-17:30	Christophe Eloy	Planktonic navigation (Ctd.)
17:30-18:30		Tutorial group meetings and informal discussions with lecturers
19:30	<i>Geilo School Closing Dinner</i>	<i>Geilo Awards, Poster Prizes etc.</i>
11th Day Thursday Nov. March 23		
08:30-12:30	<i>Departure</i>	<i>Bus transportation of participants from Geilo to Oslo airport (12:30) and Oslo central station (13:30)</i>

- Each lecture hour will last for about 50 min including questions and a 10 min break
- Coffee breaks approximately 10:15-10:30 and 16:15-16:30