## Gemini workshop on Polymer Surfaces and Tribology -From Foundations to Applications

## 26-27 November 2018 PFI 5000A, Gløshaugen campus, Trondheim, Norway

## Monday

11:00 - 11:15	Welcome
11:15 - 12:00	Martin Muser, (Saarland University and Forschungszentrum Jülich, DE)
	Modeling the tribological interaction of polymer brushes (and gels) with
	MD at a coarse-grained scale
12:00 - 13:15	Lunch
13:15-14:00	Rok Simic (ETH Zurich, CH), Using soft brushy hydrogels to mimick
	lubrication in nature
14:00 - 14:30	Discussion
14:30 - 15:00	Coffee break
15:00-15:45	Jianying He, (NTNU, NO) Super-low ice adhesion surfaces

## Tuesday

9:00 - 9:45	Szymon Bernat, (SINTEF industry, NO) Seals in Environmentally Acceptable Lubricants
9:45 - 10:30	Brede Thorkildsen, (Technip FMC, NO) Polymer seals and lubricants in cold environments – Performance, limitations and mitigations
10:30 - 11:00	Coffee break
11:00 - 11:30	Discussion
11:30 - 12:15	Andre Schirmeisen, (University of Giessen, DE) How Nanoscale Fric-
	tional Dissipation couples into Polymer Relaxations
12:15 - 13:00	Lunch
13:00 - 13:45	Hans Fredrik Sandberg, (Seal Engineering, NO) Advanced polymer seals
	- $Challenges$
13:45 - 14:15	Discussion
14:15 - 14:30	Closing

We aim to have a lot of discussion between participants. We also therefore like to encourage speakers and participants to raise and present discussion points, with a few slides in maybe 5-10 minutes. The topic is very free. It could be, for example, sketching a problem that needs solving, or describing a method that might be useful.

Organisers: Astrid Bjørgum (SINTEF), Astrid de Wijn (NTNU), Nuria Espallargas (NTNU), Sergio Armada (SINTEF).

Gemini centres: https://www.ntnu.edu/research/gemini-centres.