

<b>Day 1, May 23, 2022</b>		
Arrival to Granlibakken and check-in		
<b>Dinner</b>		6:00 pm-7:30 pm
Welcome reception		7:30 pm-9:30 pm
<b>Day 2, May 24, 2022</b>		
<b>Breakfast</b>		7:30 am-8:30 am
<b>Morning session 1 (8:30 am - 10:10 am)</b>		<b>Session Chair: Cody Ritt</b>
8:30-9:00 am	<b>Chuanhua Duan</b>	<b>Exploring new fundamentals and applications of solid-state nanopores beyond translocation-based sensing and transport control</b>
9:00-9:20 am	Matthias Kuenhe	Thermodynamics of Reversible Fluid Phase Transitions in Isolated Carbon Nanotubes
9:20-9:40 am	Yoav Green	Electrical conductance of charged nanopores
9:40-10:10 am	<b>Marija Drndic</b>	<b>Sculpting of 2d materials: from pores and nanoporous membranes to sequencing and water desalination</b>
<b>Coffee Break</b>		10:10-10:30 am
<b>Morning session 2 (10:30 am - 11:40 am)</b>		<b>Session Chair: Savannah Silva</b>
10:30-10:50 am	Sam Faucher	Dynamics of Fluid Filling and Adsorption inside Isolated Carbon Nanotubes
10:50-11:20 am	<b>Slaven Garaj</b>	<b>INVITED</b>
11:20-11:40 am	Alon Herman	Ratchet Based Ion Pumps
<b>Lunch and free time</b>		11:40 am-6:00 pm
<b>Dinner</b>		6:00 pm-7:30pm
<b>Evening session 1 (7:30 pm-8:20 pm)</b>		<b>Session Chair: Sam Faucher</b>
7:30-8:00 pm	<b>Mihai Barboiu</b>	<b>Artificial water channels-toward biomimetic membranes for desalination</b>
8:00-8:20 pm	Antony Straub	Ultra-selective and oxidation-resistant pressure-driven desalination using nanobubble trapping membranes

**Day 3, May 25, 2022****Breakfast** 7:30 am-8:30 am**Morning session 3 (8:30 am - 10:10 am)** Session Chair: Mingye Xiong

8:30-9:00 am	<b>Manish Kumar</b>	<b>Beyond aquaporins: recent developments in artificial water channels</b>
9:00-9:20 am	Razi Epsztein	Experimental indications of ion dehydration in nanofiltration membranes
9:20-9:50 am	<b>Baoxia Mi</b>	<b>The partitioning and transport of water contaminants in 2d nanochannels</b>
9:50-10:10 am	Cody Ritt	Laser interferometry as a versatile platform for characterizing nanoscale flow rates in permeable materials

**Coffee Break** 10:10 am-10:30 am**Morning session 4 (10:30 am - 11:50 am)** Session Chair: Sidi Zhao

10:30-11:00 am	<b>Rohit Karnik</b>	<b>Nanofluidic transport across nanoporous atomically thin graphene and its development as a next-generation membrane</b>
11:00-11:20 am	Yuhao Li	Transport through Chirality-pure Carbon Nanotube Porins
11:20-11:50 am	<b>Alex Smolyanitsky</b>	<b>Solid pores governed by coordination chemistry</b>

**Lunch and free time** 11:50 am-6:00 pm**Dinner** 6:00 pm-7:30 pm**Evening session 2 (7:30 pm-10:00 pm)**7:30-10:00 pm **Poster session and reception****Day 4, May 26, 2022****Breakfast** 7:30 am-8:30 am**Morning session 5 (8:30 am - 10:10 am)** Session Chair: Yoav Green

8:30-9:00 am	<b>Slava Freger</b>	<b>Ab initio meets mean-field: Water and ion transport in carbon nanotube porins</b>
9:00-9:20 am	Vasili Artemov	Electrodynamics of water at nanoscale
9:20-9:40 am	Francesco Fornasiero	Decoupling entrance and inner resistances in CNT channels
9:40-10:10 am	<b>Seth Darling</b>	<b>Membrane innovations for resilient and selective separations</b>

**Coffee Break** 10:10-10:30 am

<b>Morning session 6 (10:30 am - 11:50 am)</b>		<b>Session Chair: Jesse Elliot</b>
10:30-11:00 am	<b>Anh Pham</b>	<b>Ion transport and selectivity in sub-nm nanopores from multiscale simulations</b>
11:00-11:20 am	Peter Berg	A pore-level model for ionic (electro)actuators
11:20-11:50 am	<b>Andrea Schafer</b>	<b>INVITED</b>
<i>Lunch and free time</i>		11:50 am-6:00 pm
<b>Evening session 3 (6:00 pm-7:00 pm)</b>		<b>Session Chair: Yuhao Li</b>
6:00-6:30 pm	<b>Aleksei Aksimentiev</b>	<b>Nanofluidic adventures in nanopore transport</b>
6:30-6:50 pm	Rana Uwayid	Perfect divalent cation selectivity with capacitive deionization
6:50-7:00 pm	<i>Closing remarks</i>	
<b>Dinner and Reception (Granlibakken)</b>		7:00 pm-9:00 pm
<b>Day 5, May 27, 2022</b>		
<b>Breakfast</b>		7:30 am-8:30 am
<b>Checkout and Departure from Granlibakken</b>		