
Week 1, July 4 – 8, 2022

Sunday, July 3rd

6:30pm – 8:30 **Registration mixer with refreshments**
WeatherTech Café in the C4C
Beer and Wine Will Be Served

Monday, July 4th

8:30 – 9:00 **Organizers**
Welcome and School Introduction

9:00 – 10:30 **G. Falkovich**
Introduction to hydrodynamics

10:30 – 11:00 Coffee break – questions / interaction with speaker

11:00 – 12:30 **K. R. Sreenivasan**
Quantum turbulence

12:30 – 13:45 Lunch

14:00 – 15:30 **J. Oishi**
Using Dedalus

15:30 – 16:30 **Participant Introductions**

Tuesday, July 5th

9:00 – 10:30 **G. Falkovich**
Introduction to hydrodynamics

10:30 – 11:00 Coffee Break

11:00 – 12:30 **K. R. Sreenivasan**
Fluid mechanics of the Sun

12:30 – 13:45 Lunch

14:00 – 15:30 **J. Oishi**
Using Dedalus

18:00–20:30 Dessert on Flagstaff Mountain
Busses leave south of C4C at 6pm

Hydrodynamics Across Scales July 4 – July 29, 2022

Detailed Schedule All lectures are in Duane Physics Room G130

Wednesday, July 6th

9:00 – 10:30	T. Shaw <i>Large-scale circulation</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	J. Yeomans <i>Active nematics</i>
12:30 – 13:45	Lunch
14:00 – 15:30	J. Oishi <i>Using Dedalus</i>

Thursday, July 7th

9:00 – 10:30	T. Shaw <i>Large-scale circulation</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	J. Yeomans <i>Active nematics</i>
12:30 – 13:45	Lunch
14:00 – 15:30	G. Falkovich <i>Introduction to hydrodynamics</i>
18:30 – 18:55	Poster Blurbs I <i>Duane G130</i>
19:00 – 22:00	Poster Session I <i>11th Floor Commons Room</i>

Friday, July 8th

9:00 – 10:30	T. Shaw <i>Large-scale circulation</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	J. Yeomans <i>Active nematics</i>
12:30 – 13:45	Lunch
14:00 – 15:30	What have we learned?
19:00 – 21:30	Catered dinner <i>11th Floor Commons Room, Gamow Tower</i>

Week 2, July 11 – 15, 2022

Monday, July 11th

9:00 – 10:30	K. Julien <i>Rotating convection</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	H. Aluie <i>Subgrid modeling</i>
12:30 – 13:45	Lunch
14:00 – 15:30	A. Venaille <i>Topological waves</i>

Tuesday, July 12th

9:00 – 10:30	K. Julien <i>Rotating convection</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	H. Aluie <i>Subgrid modeling</i>
12:30 – 13:45	Lunch
14:00 – 15:30	A. Venaille <i>Topological waves</i>

Wednesday, July 13th

9:00 – 10:30	F. Bouchet <i>Large deviation theory</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	H. Aluie <i>Subgrid modeling</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Y. Tu <i>Active matter</i>

Hydrodynamics Across Scales July 4 – July 29, 2022

Detailed Schedule All lectures are in Duane Physics Room G130

Thursday, July 14th

9:00 – 10:30	F. Bouchet <i>Large deviation theory</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	A. Venaille <i>Topological waves</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Y. Tu <i>Active matter</i>
18:30 – 18:55	Poster Blurbs II <i>Duane G130</i>
19:00 – 22:00	Poster Session II <i>11th Floor Commons Room, Gamow Tower</i>

Friday, July 15th

9:00 – 10:30	F. Bouchet <i>Large deviation theory</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	K. Julien <i>Rotating convection</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Y. Tu <i>Active matter</i>

Week 3, July 18 – 22, 2022

Monday, July 18th

9:00 – 10:30	N. Goldenfeld <i>Modeling the transition to turbulence</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	B. Fox-Kemper <i>Ocean dynamics</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Informal Discussions
19:00 – 20:00	Public Lecture: B. Fox-Kemper <i>Duane Physics G1B30</i>

Tuesday, July 19th

9:00 – 10:30	N. Goldenfeld <i>Modeling the transition to turbulence</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	B. Fox-Kemper <i>Ocean dynamics</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Andy Lucas <i>Viscous electrons</i>

Wednesday, July 20th

9:00 – 10:30	S. Tobias <i>Direct statistical simulation</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	E. Zweibel <i>Fluids at very largest scales</i>
12:30 – 13:45	Lunch
14:00 – 15:30	Baylor Fox-Kemper <i>Ocean dynamics</i>

Hydrodynamics Across Scales July 4 – July 29, 2022

Detailed Schedule All lectures are in Duane Physics Room G130

Thursday, July 21st

9:00 – 10:30	S. Tobias <i>Direct statistical simulation</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	E. Zweibel <i>Fluids at very largest scales</i>
12:30 – 13:45	Lunch
14:00 – 15:30	N. Goldenfeld <i>Modeling the transition to turbulence</i>
18:30 – 18:55	Poster Blurbs III <i>Duane G130</i>
19:00 – 22:00	Poster Session III <i>11th Floor Commons Room</i>

Friday, July 22nd

9:00 – 10:30	S. Tobias <i>Direct statistical simulation</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	E. Zweibel <i>Fluids at very largest scales</i>
12:30 – 13:45	Lunch
14:00 – 15:30	What have we learned?

Week 4, July 25 - July 29, 2022

Monday, July 25th

9:00 – 10:30	S. Fielding <i>Complex fluids (theory)</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Nagel <i>Complex fluids (expt.)</i>
12:30 – 13:45	Lunch
14:00 – 15:30	T. Powers <i>Swimmers</i>

Tuesday, July 26th

9:00 – 10:30	S. Fielding <i>Complex fluids (theory)</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	S. Nagel <i>Complex fluids (expt.)</i>
12:30 – 13:45	Lunch
14:00 – 15:30	D. Son <i>Quantum Hall liquids</i>

Wednesday, July 27th

9:00 – 10:30	S. Fielding <i>Complex fluids (theory)</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	T. Powers <i>Swimmers</i>
12:30 – 13:45	Lunch
14:00 – 15:30	D. Son <i>Quantum Hall liquids</i>

Hydrodynamics Across Scales July 4 – July 29, 2022

Detailed Schedule All lectures are in Duane Physics Room G130

Thursday, July 28th

9:00 – 10:30	S. Nagel <i>Complex fluids (expt.)</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	T. Powers <i>Swimmers</i>
12:30 – 13:45	Lunch
14:00 – 15:30	D. Son <i>Quantum Hall liquids</i>

Friday, July 29th

9:00 – 10:30	Royce Zia <i>Non-equilibrium Statistical Mechanics: a personal perspective</i>
10:30 – 11:00	Coffee Break
11:00 – 12:30	School discussion & summary
12:30 – 13:45	Lunch
14:00 – 15:30	Informal discussions